Construction News

THE ALIEN LABOR CASE IN COURT

The Bricklayers & Masons Union has withdrawn its complaint filed with the Public Service Commission for the First District against the Dock Contractor Co., for alleged violation of the Labor Law.

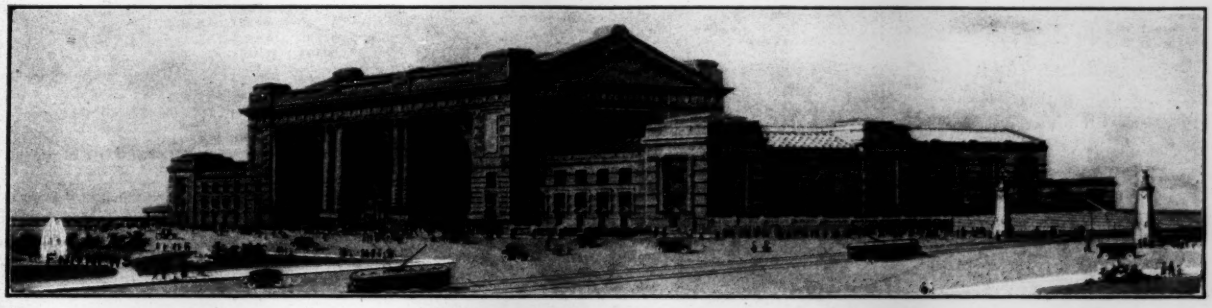
John Gill, Business Agent of the union, had complained that this company, which has the contract for the new subway in Broadway between Bleecker St. and Union Sq., had been employing workmen who were not citizens of the United States, this being a violation of the Labor Law which states that only citizens may be employed on municipal work.

Upon the affidavit of W. V. McMenimen, Vice-Pres. and Gen. Mgr., of the Dock Contractor Co., that the company has not employed anyone but citizens since Nov. 7, Gill withdrew his complaint; but immediately filed another against the Underpinning & Foundation Co., a sub-contractor on the section of the Dock Contractor Co. The allegation against this company is the same as that previously made against the Dock Contractor Co.

William E. Heim, 1 Madison Ave., a taxpayer and employee of one of the subway contractors was granted an injunction by Judge Davis, restraining the Public Service Commission from holding up the vouchers of subway contractors pending a ruling by the courts.

THE NEW UNION STATION AT KANSAS CITY, MO.

The new union station at Kansas City, Mo., which was opened to traffic on Nov. 1, is shown in the accompanying cut.* The building is of Bedford stone, with trimming of gray granite and cast concrete blocks. The large central portion contains the main hall, 240x103 ft., 92 ft. high, with a semicircular ticket office having 24 windows. Around this hall are the various station facilities, and approaches to the restaurant and dining rooms in the right wing and to the baggage room in the left wing. Railway offices occupy the upper floors.



NEW UNION STATION, KANSAS CITY

The waiting room, 350x78 ft., occupies a building behind the headhouse and extending across the tracks. Along each side of this is a broad corridor with stairways to the train platforms below, and the waiting room has a door at each stairway. Outgoing passengers pass through these doors, while incoming passengers pass along the corridors to the main hall. The top of the trainshed is about level with the street, as shown. A brief description of the new station and terminal was given in our issue of Oct. 29.

The building cost about $6,000,000, and the land, tracks, etc., about $6,000,000 more, while the total cost of the station, approaches, new belt line, etc., which are included in the new terminal works, represent over $40,000,000. The George H. Fuller Co. had the contract for the station. Jarvis Hunt was the Architect, and John V. Hanna is Chief Engineer of the Kansas City Terminal Ry.

Pointers on South American Trade—People who sell in South America should post themselves on the commercial law of the country with which they are dealing.

At a recent conference of manufacturers in Boston, the story was told of a representative of one of the leading makers of typewriters, who opened an office in the Argentine with a view to selling machines on long credit by means of the installment-lease system so much used in this country. He sold one machine on which he received several payments, but then got nothing for some months, despite his urgent correspondence. One day the machine in question was sent in for repairs. Very naturally it was held and the purchaser notified that it would not be returned until some arrangement was made respecting the balance due.

The next day the agent of the typewriter company found himself in jail. There he stayed until the efforts of the American consul and a promise never to do it again secured his release. It seems that in that country a sale is a sale; the property changes hands "for keeps," and no string can be tied to it.

Another fact of importance was brought out, that is, European transportation lines have a system of rebates calculated to make it difficult for Americans to break in. A contract is entered into by a merchant in South America by which he agrees to have all his imports come by a certain line, in consideration for which he is to have a 10% ocean-freight rebate, payable six months later. This is enough to make it advantageous for him to have goods from this country sent to Europe and reshipped by the transportation company with which he has the contract, instead of shipping direct from here.

Business Results of the War—Evidences are multiplying that the cutting off of supplies from Europe is stimulating the creation of new industries in this country. As a result of the stoppage of potash shipments from Germany, the Pittsburgh Industrial Development Commission has organized and incorporated a company, to be known as the Farmers' Fertilizer Co., having $1,000,000 capital. Seven acres of land have been purchased and the company will employ 100 men in manufacturing commercial potash under a patented process. It will make use of the slag from the Pittsburgh mills, which heretofore has been a waste material, by mixing it with Tennessee phosphate. Orders have come from the nations at war for supplies, such as clothing, ammunition and guns.

A Vermont manufacturer of ammunition has recently received an order for $2,500,000 worth of rifle cartridges for one of the belligerent powers. In order to handle this contract, rush orders for $250,000 worth of machinery have been placed.

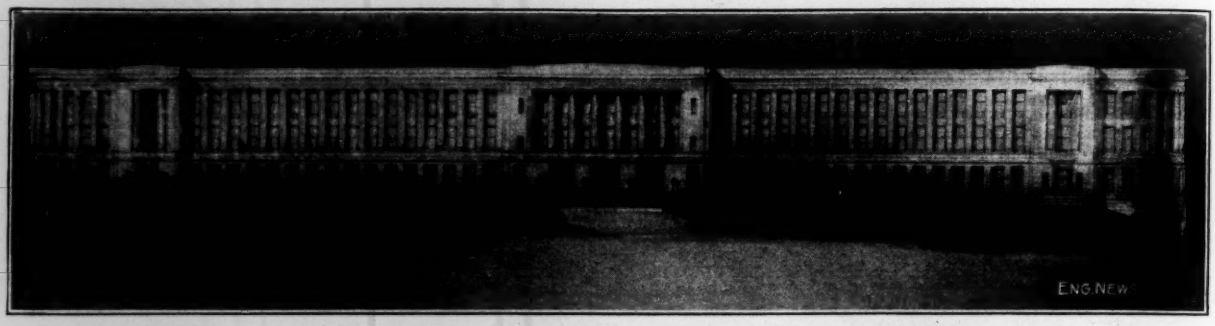
Robert Pluym, representing Pluym-Ochs, Ltd., Petrograd, in an interview at the offices of the American Express Co., 65 Broadway, New York, said that his firm was in the market for agricultural machinery, machine tools, and miscellaneous supplies. Russia, he said, had been spending yearly $500,000,000 for German goods, and that now the United States inevitably must get the bulk of this trade.

Municipal Bond Sales—A sharp falling off in municipal bond sales in November was reported by the "Financial Chronicle." They amounted to $12,779,800, compared with $30,708,700 in the corresponding month last year. The total sales this year aggregate $427,803,300, which is far larger than any previous year.

*Reproduced from a print made by the Teachenor-Bartberger Engraving Co., of Kansas City, Mo.

SCHENLEY HIGH SCHOOL, PITTSBURGH, PENN.

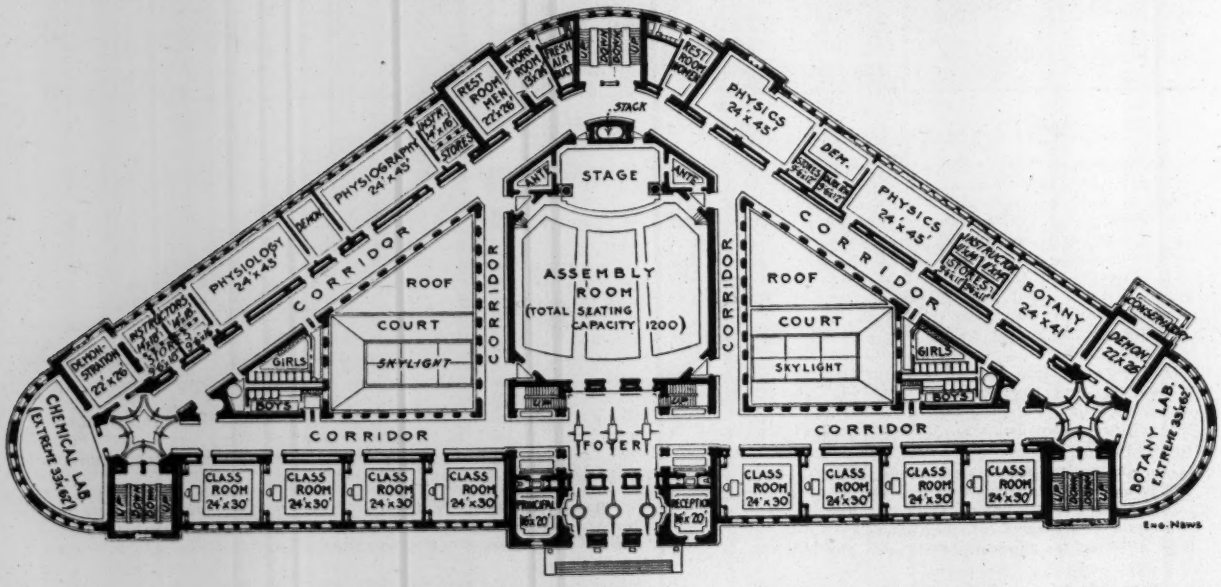
Bids were received, Nov. 3, by the Board of Education, for the construction of the Schenley High School. For (a) heating and ventilating, (b) plumbing and (c) electrical work, bids were received from Hanley Casey Co., Chicago, Ill., (a) $143,628, (b) $47,840, (c) $49,700; Fitzpatrick & Hoepener, Columbus, Ohio, (a) $150,833, (b) $51,588; Standard Engineering Co., Washington, D. C., (a) $151,301, (b) $47,300, (c) $41,900; McGinniss Co., Pittsburgh, (a) $154,739; Baker, Smith & Co., Pittsburgh, (a) $158,697; W. G. Cornell Co., New York, N. Y. (a) $163,671, (c) $43,265; Thompson-Starrett Co., Pittsburgh, (a) $164,945, (c) $41,000; G. F. Higgins Co., Pittsburgh, (a) $166,808; Iron City Engineering Co., Pittsburgh, (a) $175,494, (c) $36,914; McGinniss-Smith Co., Pittsburgh, (a) $182,761; Weldon-Kelly Co., Pittsburgh, (b) $41,661; W. N. Sauer Co., Pittsburgh, (b) $42,263; S. S. White, Pittsburgh, (b) $45,054; Buerkle Plumbing Co., Pittsburgh, (b) $46,300; Moss & Blakely Co., Pittsburgh, (b) $46,360; Stinson Kennedy & Co., Pittsburgh, (b) $50,700; Drake Avery Co., Hamilton, Ont., (b) $51,259; Knoxville Plumbing Co., Pittsburgh, (b) $57,715; Craig Electric Co., Pittsburgh, (c) $35,900; Loughridge Engineering Co., Pittsburgh, (c) $36,172; Commercial Construction Co., New York, N. Y. (c) $37,400; L. H. Neilson Co., Pittsburgh, (c) $37,700; L. K. Comstock, Pittsburgh, (c) $38,880; W. H. Ochiltree Co., Pittsburgh, (c) $40,300; Morganstern Electric Co., Pittsburgh, (c) $42,595; Carter Electric Co., Pittsburgh, (c) $45,297; G. L. Craig Co., Pittsburgh, (c) $48,824. Bids for the general construction were submitted by (A) Thomas Reilly Co., Pittsburgh; (B) John H. Parker Co., New York, N. Y.; (C) George H. Fuller Co., Pittsburgh; (D) Henry Shenk Co., Pittsburgh; (E) James G. Doak, Philadelphia; (F) W. F. Trimble & Sons Co., Pittsburgh; (G) George Hogg Co., Pittsburgh; (H) Thompson-Starrett Co., Pittsburgh; (I) J. L. Stuart, Pittsburgh; (J) Golden & Crick, Pittsburgh; (K) William Dall, Cleveland, Ohio; (L) Marble Arch Co., New York, N. Y. The item bids were as follows:



FRONT ELEVATION OF THE SCHENLEY HIGH SCHOOL, PITTSBURGH

GENERAL CONSTRUCTION

	A	B	C	D	E	F	G	H	I	J	K	L
Sand stone exterior	$658,703	$709,700	$709,000	$694,728	$711,890	$707,390	$712,469	$720,000	$735,900	$759,957	$799,000	$857,000
Lime stone exterior	651,979	672,000	674,000	676,548	685,163	690,390	692,828	703,000	710,600	748,722	774,000	826,000
Sand stone base—brick and terra cotta	622,833	658,000	654,000	653,880	666,866	662,390	672,703	676,600	701,200	706,197	735,000	815,000
Lime stone base—brick and terra cotta	620,619	649,000	643,000	648,830	685,151	659,390	665,826	673,600	692,400	705,171	733,000	806,000
Sand stone base—superstructure all terra cotta	630,227	667,000	664,000	663 168	674,890	669,390	677,803	685,4.0	711,800	717,998	747,000	821,000
Lime stone base—superstructure all terra cotta	628,567	658,000	653,000	658,168	665,076	666,390	680,926	682,400	702,700	716,972	744,000	812,000
Deductions	.....	4,800	5,000	4,500	3,400	3,000	.....	.....	7,000	.....	5,000	4,000
Windows												
Tabor	4,027	3,927	4,520	.....	4,327	4,627	.....	4,400	.....	4,124	4,300	.....
Gates	3,741	3,641	3,820	3,850	4,241	4,100	3,825	4,625	3,641	3,823	.....	.....
Metal rev	3,735	3,140	3,290	4,500	.....	3,840	.....	4,100	.....	.....	4,300	4,000
Williams pivot	.....	.....	4,457	4,500	.....	4,397	4,460	.....	4,600	.....	4,300	.....
Keystone	3,875	4,000	3,960	3,963	4,375	4,475	4,125	4,750	4,000	3,964	.....	.....
International Mfg. Co., brass	.....	3,940	4,914	.....	.....	.....	.....	5,650	.....	.....	4,300	.....
International Mfg. Co., steel	.....	.....	.....	.....	.....	.....	.....	3,925	.....	.....	.....	.....
Piles												
Austral	.....	.....	3,665	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cummings	26,348	26,148	27,648	26,648	27,347	26,932	25,575	26,148	27,000	27,455	.....	.....
McArthur	27,200	27,000	28,500	27,500	28,200	.....	27,000	27,000	28,000	28,350	27,000	29,000
Frankignoul	25,372	.....	26,430	25,672	.....	.....	25,172	.....	.....	.....	.....	.....
Raymond	27,200	27,000	28 500	27,500	28,200	27,810	27,000	27,000	27,000	28,350	.....	29,000
Enterprise	25,775	25,575	26,853	26,075	26,775	28,000	.....	25,575	26,500	26,854	27,000	27,575
Cranford	27,486	27,285	28,649	27,790	28,485	28,100	27,286	27,281	28,275	29,843	.....	.....
Totals	$681,226	$701,575	$704,390	$706,183	$716,313	$721,797	$722,125	$733,325	$741,100	$779,540	$805,300	$857,575



PLAN OF THE SCHENLEY HIGH SCHOOL, PITTSBURGH

Prices of Engineering Materials

PRICE CHANGES AND THE BUSINESS OUTLOOK

Sentiment, the incentive which starts the mainspring of business, has decidedly improved. From all parts of the country come reports of a better feeling among manufacturers, distributors, and men conversant with the business situation. In many localities, improvement in business has already been seen, but this is by no means general, and in some cases the reverse is true. But there is a feeling that businss conditions will improve from now on, and in spite of the terrible happenings in Europe, this country can and must go on. Many new avenues of business have been looked into, but as yet only a little work has been done toward their development.

Of primary importance, so far as construction work is concerned, is the announcement that the Chicago, Milwaukee & St. Paul will immediately start on the electrification of 107 miles of its Mountain Division. This is the first important railway contract that has been let since the war, and emphasizes the advantage of working when material and labor are low.

Orders for munitions of war and supplies for the armies in Europe have been exceedingly large. Various estimates are given as to the total amount of these orders, but because of duplication and the impossibility of securing any real information until shipments are being made, it is out of the question to form any exact estimate as to their value. They undoubtedly will run into the hundreds of millions of dollars, and it would seem as though the stream of goods to Europe had only started.

Numerous factories have been built as a result of the war, chiefly by makers of munitions of war, but other manufacturers are making preparations to do an increased business. More attention is being paid to the manufacture of alloy steel and electrical steels than ever before, and laboratory experiments have been started on the manufacture of dye stuffs. There is no doubt that these materials can be made in the United States just as satisfactorily as abroad, if we only have to do it.

An announcement by the President of the United States that hereafter there will be more coöperation between the Government at Washington and the railroads, was received with delight. That the people are getting tired of a lot of regulations aimed at the railroads, is perhaps seen in the referendum vote repealing the Missouri Full Crew Law. During the last week in November, the Interstate Commerce Commission handed down a decision allowing rate increases in the West and in the South.

The iron and steel industry of the country is working at perhaps 30% of capacity. New orders are being received at about that rate. Stocks are not accumulating, and it is evident that prices are near bottom. Some exceedingly low quotations have been made for the delivery of fabricated material for use by the Isthmian Canal Commission, and cast-iron pipe is lower, perhaps, than before in a great many years. It is reported that the Pennsylvania R.R. bought cast-iron pipe for $17, delivered to lines of railway. The city of Boston recently purchased pipe at $19.70. Similar low quotations have been current in other branches of the trade.

It would seem as though this were a good time for municipalities to make improvements. Recently a small water works job was let, a job which would ordinarily cost $60,000 to $65,000, and there were 42 contractors who put in bids for the work. On a government job, more than one hundred sets of plans were requested. Contractors all over the country are anxious to do some kind of work, and perhaps too anxious for their own advantage. It would be better for some of them to stop work for a year or so rather than take contracts at figures where there can be no hope of a profit.

Contractors on the New York subway have been greatly disturbed by contemplated action under a 17-year-old law which had never been enforced. This alien labor clause, reference to which is made in another column, will not tie up the building of subways in the city, but may delay them somewhat for the next two or three months. It will be possible to secure enough laborers who have naturalization papers, even if the law is not declared unconstitutional. It must be pointed out that this is an especially good time to test such a law.

Building operations continue to fall off. In October they were about 70 per cent. of the corresponding month last year. In November they will be somewhat less. New building is restricted more by title companies' and the banks' refusals to lend, than anything else. At least two corporations have been organized in New York to buy up any real bargains in real estate.

Interest in shipbuilding is reviving. An announcement has been made that a $2,500,000 drydock will be built on the Pacific Coast, the Fore River shipbuilding plant at Quincy, Mass., will be enlarged, and there are inquiries in the steel market for about 20,000 tons of plates and shapes which will be required for coastwise vessels and vessels using the Panama Canal. More than three-quarters of a million tons' register of foreign vessels has been transferred to the American flag as a result of recent legislation.

Trading was resumed on the New York Stock Exchange on November 28 This applies to trading in bonds only, and these above a prescribed minimum limit. The Stock Exchange had been closed since July 30. It is interesting to note that about 78 stocks are now selling through the New York Stock Exchange Clearing House at prices above those recorded on July 30.

LABOR

Probably more men are unemployed in the City of New York than ever before in the history of the city, and those conversant with the situation fear there will be more unemployed this winter than ever before. This seems rather improbable. It is evident that business conditions are improving and will shortly take up in a large measure the great horde of unemployed. But this has no effect on labor unions, who continue to make demands for shorter hours and higher wages. A long forgotten law in New York prohibits the employment of any but citizens of the United States on public works. This, unless it is found unconstitutional, will throw out of employment a great number of excavators and other rough laborers, but the unions constantly say that there are 25,000 men in this city, who can do this work, but will be unwilling to work with a pick and shovel, or anything else for that matter, for less than $3 per day. Immigration is at about one-third of the normal rate. In September the number of aliens who entered this country was less than 30,000. During the first nine months of the year only 610,000 came to the United States, while in the fiscal year ending June 30, 1909, only 751,000 aliens came to the country. It is evident that there will be a thorough revamping of the immigration law aimed to keep out of this country Europeans who might come as a result of the great war. Wages are practically unchanged at $1.60 per day.

CEMENT, LIME AND BRICK

Cement—More than the usual cutting has been going on by the small manufacturers of cement, who are endeavoring to dispose of surplus stocks in the markets of New York and vicinity. These cuts range from 5 to 7½ cents, but no trustworthy evidence is forthcoming that the larger manufacturers have departed from their regular quotation of $1.58 New York. Production is being curtailed, and manufacturers are seeking to avoid the accumulation of any more stocks, during the winter months, than are necessary. There is a general note of optimism, however, and many feel that with the advent of spring conditions will show a material improvement. Prices in the West are unchanged from last month.

The quotations given below do not include the charge of 40 cents made for bags, but are for barrels of cement delivered at the points named, in cloth sacks less their charge:

Boston	$1.32	Chicago	$1.10
Cleveland	1.25	Detroit	1.14
Duluth	1.33	Jersey City	1.06
Minneapolis	1.30	New York	1.18
Pittsburgh	1.05	St. Paul	1.30

Lime—Business continues quiet and prices are unchanged; 97c. per barrel for state common, 200 lb. net; $1.37 for 300 lb. barrel; $1.55 for 300 lb. finishing; $1.10 for 200 lb. finishing; and $1.72 for 350 lb.

Brick—Prices are about the same as last month, shipments on the river much restricted. Prices are not so low as would be expected under the circumstances, as $5.25 is quoted for Hudson River Common.

IRON AND STEEL

Little change is shown in the iron market, compared with last month. While sentiment is more cheerful, actual business booked has not been much larger, and from the coke production, pig-iron output, and the operation at the mills, it can be seen that the steel industry is working at about 30% of its maximum capacity. The orders received by manufacturers in the last month include approximately that figure. It is well to point out at this time, while the orders from foreign nations for munitions of war have been large in point of dollars, they have not affected the steel industry greatly in point of tonnage. Interest is still centered in the outcome of the railway rate case, and it is believed on practically all sides that a new era is dawning, and one in which the blind antagonism to railways and big business will be at an end. Should the railways be in a position to release orders for immediate improvements, the iron trade would be greatly stimulated.

Pig-Iron—Toward the end of the month the pig-iron market brightened considerably, and sales of foundry grades from Buffalo furnaces aggregated fully 200,000 tons. Most of this business was taken by small foundries in New England and on the Atlantic Seaboard, but one concern, the American Radiator Co., purchased well over 100,000 tons. The price was attractive, and buying resulted in quotations of 25c. more per ton. Most of the furnaces in that district are now well sold up for the first quarter of 1915, and some of them have considerable business in the second quarter. In the Southern field prices are maintained at $10 per ton for No. 2 in Birmingham. The Steel Corporation has recently sold some foundry iron for delivery in Cincinnati, which includes several attractive lots. Southern foundry interests are somewhat busier. Some machine tool builders have been exceedingly active. The attractive prices at which pig-iron has been offered have stimulated activity in more than one line.

Quotations for pig-iron in lots of 100 tons or over at the points named are as follows: Cincinnati: Southern Foundry No. 2, $13.00 to $13.50; Northern Foundry No. 2, $14.25 to $14.75; Northern Foundry No. 3, $14.00 to $14.25.

In New York, iron is quoted as follows: No. 2-X Northern Foundry, $13.75 to $14.25; No. 2 plain Northern Foundry, $13.75; No. 2 Southern Foundry, delivered tidewater, N. Y., $14.25 to $14.50.

In Birmingham, Southern Foundry No. 2 is $10 to $10.25. Several sales have been made at the latter figure. In Chicago, Northern Foundry No. 2 is $12.50 to $13. In Pittsburgh, bessemer iron is $14.70 and basic $13.35 to $13.45. This includes the 95-cent freight rate from the Valley to the Pittsburgh District.

Steel Rails—Some business has developed, and the New York Central has put in an order for 25,000 tons, which went to the Lackawanna Steel Co. This is only about 20% of the normal requirement of the road mentioned, but so far no other roads have placed any orders of importance. An inquiry is in the market for 30,000 tons of rails for Norway, but the hopes of getting this order are not great. Quotations for lots of 500 tons or over are unchanged. Standard sections of bessemer are $28, and basic $30. These quotations are per net ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40 per gross ton, and in 60-ft. lengths $38.40, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots are as follows: Standard sections, $1.25; 25- to 45-lb. sections, $1.15; 16- to 20-lb., $1.20; 12- to 14-lb., $1.25; 8- to 12-lb., $1.30. All of these quotations are per 100 lb. Relaying rails in New York are cheaper at $19 to $19.50 per ton.

Structural Shapes—Reports of the Bridge Builders' Society indicate that fabricating shops of the country are operating to about 35% of normal. Railroads are doing practically nothing and there is less building in prospect than a month ago. The mills are operating to about 30% of maximum capacity. Prices are $1 to $2 per ton lower than last month, and for large lots at the mill Pittsburgh are as follows:

I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., and tees 3 in. and over, 1.10c. Other quotations are as follows: I-beams over 18 in., H-beams over 18 in., channels over 16 in., and angles over 6 in., 1.20c.; tees, 1.15c.; deck beams and bulb angles, 1.40c.; hand-rail tees, 1.85c. Cutting to specified lengths is charged for at the following rates: Under 3 ft. to 2 ft., inclusive, 25c. per 100 lb.; 2 ft. to 1 ft., inclusive, 50c.; less than 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft.

In Chicago the base price is 1.25@1.34c. In New York, 1.26@1.31c. In San Francisco, 2@2.05c.

Plates—Improvement is evident in the demand for plates. It is probable that several boats will shortly be laid down. These will be used in the coastwise trade and also through the Panama Canal. The base price is 1.05c., Pittsburgh. This is for gages ¼ in. and over; for gages under ¼ in., to and including ⅜ in., 1.15c. is demanded. In Chicago mill deliveries are 1.25@1.30c., and plates from store are 1.65@1.75c. In New York mill shipments are 1.31c.

Pipe—Inquiries for line pipe have been postponed and the mills are operating to only a small ratio of their capacity. Discounts have been revised, making net prices lower. Revised discounts applying to standard lists are as follows:

	Black	Galvanized
¾- to 2-in. steel, butt welded	81%	72½%
2½- to 6-in. steel, lap welded	80%	72½%
7- to 12-in. steel, lap welded	77%	66½%

At these discounts, the net prices of pipe per foot, in large lots, at Pittsburgh are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.20	3.15	5-in.	29.60	42.20
1-in	3.24	4.67	6-in.	38.40	54.60
1¼-in	4.38	6.30	7-in.	55.00	80.00
1½-in	5.25	7.55	8-in.	57.50	84.00
2-in.	7.05	10.15	9-in.	79.50	$1.16
2½-in.	11.70	16.70	10-in.	95.00	$1.38
3-in.	15.25	21.80	11-in.	$1.06	$1.55
4-in.	21.80	31.00	12-in.	$1.17	$1.70

Sheets—Some inquiries have been received for export, the chief one being from Italy. Prices are from $1 to $2 per ton less than last month, as follows:

The following quotations are for large lots of sheets in Pittsburgh, and small lots from store, New York.

	Cents per Pound—Large lots Pittsburgh Black	Large lots Pittsburgh Galv.	Ware house delivery New York Black	Ware house delivery New York Galv
No. 10	1.55	1.90	....	....
No. 12	1.55	2.00	....	....
No. 14	1.60	2.00	....	....
No. 16	1.65	2.15	2.35	2.75
Nos. 18 and 20	1.70	2.30	2.40	2.90
Nos. 22 and 24	1.75	2.45	2.45	3.05
No. 26	1.80	2.60	2.50	3.20
No. 27	1.85	2.75	2.55	3.35
No. 28	1.90	2.90	2.60	3.50

Cast Iron Pipe—Prices of cast-iron pipe are practically the lowest they have been in a generation, and the great competition among manufacturers of pipe has resulted in considerable buying, particularly by those water departments which are well fixed financially. A recent sale of about 4000 tons in the City of Boston brought out the price of $19.70 delivered, while a reported sale to the Pennsylvania R.R. was made on a basis of $17 delivered on the property of the company. The following quotations are per net ton at the points named:

Birmingham, Ala., 4- and 6-in., $19.50.
New York, 4-in. and larger $20 to $20.50.
Chicago, 4-in., $26; 6- to 12-in., $24; Over 12-in., $23.
Cleveland, 3- to 20-in., $21.50; 24- to 28-in., $21.
Gas pipe is a dollar per ton higher in all markets.

Steel Sheet Piling—The market is quiet, but the base price in Pittsburgh is practically unchanged at $1.55 to $1.60.

Wire Rope—Revised discounts are 47 and 2½% from list for galvanized and 55 and 2½% for the bright. At these discounts the net price of wire rope at the mills is as follows:

Diameter in inches	Price per foot—Cast steel	Crucible steel	Plow steel
2½	$0.76	$0.91	$1.0
2¼	0.62	0.73	0.8
2	0.50	0.58	0.6
1¾	0.39	0.48	0.5
1½	0.29	0.35	0.4
1¼	0.20	0.24	0.2
1	0.14	0.16	0.1
¾	0.09	0.10	0.1
⅝	0.06	0.07½	0.0

Steel Shapes—Quotations from warehouse, New York, are unchanged from last month as follows:

Refined iron.	Cents Per lb.
1 to 1⅞ in., round and square	1.80
1½ to 4 in. x ⅜ to 1 in.	1.80
1½ to 4 in. x ¼ to ⅛ in.	2.00
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.80
1 to 6 in. x ⅜ to 1 in.	1.80
1 to 6 in. x ¼ and ⅛ in.	1.95
Rods—⅝ and ¾ in.	1.90
Bands—1½ to 6x⅛ in. to No. 8	2.10
Beams and channels—3 to 15 in.	1.85
Angles:	
3 in. x ¼ in. and larger	1.85
3 in. x ⅛ in. and ⅛ in.	2.30
1½ to 2¾ in. x ⅛ in. and thicker	1.95
1½ to 2½ in. x ⅛ in.	2.05
1 to 1¼ in. x ⅛ in.	2.05
1 to 1¼ in. x ⅛ in.	2.10
1½ to 2½ x ¼ in.	2.00
1½ to 2½ x ⅛ in.	2.10
3 in. and larger	1.90

Old Material—Prices must be near bottom, for it scarcely pays to collect, sort and ship some kinds of scrap. In New York prices have declined 25 to 50c. a ton from last month. Dealers' selling prices are as follows:

	Per Net Ton
Heavy-melting steel scrap	$7.00@ 7.25
Pipes and flues	7.00@ 7.25
No. 1 railroad wrought	8.50@ 9.00
Stove plate	7.25@ 7.50
Malleable cast	6.50@ 7.00
No. 1 machinery cast	9.50@10.00
No. 1 yard wrought, long	8.00@ 8.50
Wrought turnings	5.00@ 5.50

In Chicago a better feeling is evident, and, although quotations are lower than last month, there has been a slight advance from the prices quoted early in November. Prices are as follows:

	Per Gross Ton
Heavy-melting steel scrap	$8.00@8.25
	Per Net Ton
No. 1 railroad wrought	7.50@7.75
No. 2 railroad wrought	7.00@7.25
No. 1 cast scrap	8.50@8.75
Pipes and flues	5.50@5.75
Agricultural malleable	7.25@7.50
Railroad malleable	7.75@8.00

Pittsburgh markets are exceedingly dull, but there is a better feeling among dealers than a month ago. Quotations per gross ton are as follows:

Heavy-melting steel scrap	$9.25@ 9.50
Re-rolling rails	11.50@12.00
No. 1 foundry cast	11.00@12.00
Old car wheels	9.50@10.00
Machine shop turnings	7.50@ 8.00
Railroad malleable	9.00@ 9.50

Chain—Prices are steady and without change, as follows: These prices are per 100 lb., f.o.b., Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	$3.00
¼ in.	4.95	⅝ and ¾ in.	2.90
⅜ in.	3.95	¾ and ⅞ in.	2.80
⅝ in.	3.40	⅞ and 1 in.	2.70
⅞ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
⅛-in. and larger	1.25	1.75

Freight Rates—The freight rates on finished steel products from the Pittsburgh district, including plates, structural shapes, merchant steel and iron bar, pipe fittings, plain and galvanized wire, nails, rivets spikes, and bolts, black sheets (except planished) chains, etc., are as follows in cents per hundred pounds: Albany, 16; Buffalo, 11; Boston, 18; Baltimore, 14½; Canandaigua, 13½; Cleveland, 10; Columbus, 12; Cincinnati, 15; Chicago, 18; Denver, Colo., 85½; Harrisburg, 14½; Louisville, 18; New York, 16; Norfolk, 20; Philadelphia, 15; Rochester, 11½; Richmond, 20; Scranton, 15; St. Louis, 23; Washington, 14½.

Freight Rates via Panama—Rates of freight per 100 lb. in carload lots from the points named to Pacific coast ports are current for shapes, reinforcing bars, plates, wire and similar products:

New York, 25c.; Pittsburgh, 41c.; Youngstown, 43c.; Niles, 43c.; Wheeling, 41c.; Steubenville, 41c.; Johnstown, 39.5c.; Coatesville, 34c.; Steelton, 35c.; Bethlehem, 32.5c.; Cleveland, 44c.; Chicago, 55c.

Wire—The demand for wire has shown a distinct improvement, due to large orders coming from the nations at war. Prices are as follows: Plain wire, Pittsburgh, is $1.40 to $1.45; galvanized wire, Pittsburgh, $1.80 to $1.85; painted barbed wire, Pittsburgh, $1.60 to $1.65; galvanized barbed wire, Pittsburgh, $2 to $2.05; galvanized staples, $2, and polished staples, $1.60. All these prices are per hundred pounds for large lots in the Pittsburgh market.

Coke—Prices show a slight improvement. For prompt shipments of furnace coke $1.50 to $1.60 per net ton at oven is demanded and for forward shipments, $1.75. For 72-hr. foundry coke the price is $1.75 for delivery during the first half of 1915. The output of coke is about 40% of maximum being figured at 206,000 tons weekly in the upper and lower Connellsville Region the middle of November.

REINFORCING MATERIALS

Bars, Concrete Reinforcing—Prices of bars are fairly steady, but it is probable that an attractive quotation could be obtained for a large lot. Prices are as follows:

	Cents per pound		
Size	Mill Shipments Pittsburgh	Warehouse Pittsburgh	Delivered from Warehouse New York
¾-in. and larger	1.15	1.60	2.20
⅝ in.	1.20	1.75	2.25
½-in.	1.35	1.90	2.30
⅜-in.	1.45	2.00	2.40
¼-in.	1.75	2.25	2.70

Triangle Mesh—Business is quiet, but prices are without change as follows:

PRICE PER 100 SQ.FT.

		Plain material		Galvanized	
Style No.	Cross sec. area per ft. width	Carload lots	Less than car lots and over 10,000 sq.ft.	Carload lots	Less than car lots and over 10,000 sq.ft.
*4	$0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
*7	0.041	0.49	0.60	0.55	0.66
*23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
*26	0.110	1.17	1.42	1.30	1.55
*27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.146	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
*39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
*43	0.101	1.10	1.34	1.23	1.46

*This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths in rolls are 150, 250, 300 and 600 ft.

METALS

Copper—Extensive buying by domestic consumers took place early in November, and for ten days or thereabouts, very brisk business resulted. Initial transactions were made at a quotation of approximately 11.20c., the lowest price reached for copper since 1908, and the market quickly advanced to 12.50c. cash New York for electrolytic. Practically all of this buying was by domestic consumers, but it cannot be said that the ultimate consumption of the metal purchased will be in the United States. It is known that a great deal was bought to fill orders for munitions of war and much of it for shipment to Europe in a partially manufactured state. Large buying has taken place of copper which will be used for locomotive fireboxes, and a great quantity of metal has been purchased for boiler tubes. There has also been considerable copper sheathing purchased. Except for export to Great Britain and neutral countries, there is little foreign business. Vessels sailing for Italian ports refuse to take copper since recent seizures, and the same is true of vessels sailing to Scandinavian and Holland ports. For metals consigned directly to neutral governments, there is practically no danger of seizure. Consumption of Lake copper is exceedingly large, and stocks are low. The price of electrolytic at the close of the month was 12.50c., and of Lake, 12.62½.

Tin—Speculative factors in the tin market are present in great numbers. The possibility of the closing of the Suez Canal by the Turks is just dangerous enough so that one dealer takes a chance on the metal getting through and another fears the canal will be closed. Shipments across the Pacific in English vessels are also attended with some risk. For this reason prices have advanced in spite of a very poor demand, and the quotation is around 34c. The arrivals during November, including the "Marquette," were figured at 2260 tons—considerably below normal consumption demand.

Lead—The market has shown fair strength, an advance of $4 per ton being announced Nov. 18. This brings the price to 3.90c. New York and 3.77½c. St. Louis. There have been heavy purchases of lead by manufacturers of ammunition. Then, too, the old prices were below the cost of production.

Spelter—Business is exceedingly quiet, but prices have advanced slightly, and in New York 5.30c. is quoted while in St. Louis 5.15c. is the price.

Antimony—The market is exceedingly irregular, and there is little buying. American manufacturers making shrapnel have use for antimony. Quotations are most irregular, at 17 to 18c. for Cookson's, 15 to 16c. for Halletts', and 13½ to 14½c. for other brands.

Aluminum—Prices have advanced slightly, and No. 1 ingots are now quoted at 19 to 19.50c. New York.

Miscellaneous Metals—Prices are higher, due to a better demand for copper and the scarcity of tin. For small lots in New York, prices are as follows:

Bismuth	$3.75 to $4.00
Brass tubes, iron-pipe sizes:	
½-in.	.16
¾- to 3-in.	.15
3½-in.	.15
4-in.	.16
Brass rods	.13¾
Brass sheets	.14
Solder, half and half guaranteed	.22
Zinc sheets	9 to 9½
Copper sheets, base	.17½
Pig tin (five-ton lots, cash)	.34

Old Metals—Somewhat better prices have been made, due to the advance in virgin metals. The following quotations represent those paid by dealers for old metals in New York:

	Cents
Copper, heavy and crucible	10.50
Copper, heavy and wire	10.00
Copper, light and bottoms	9.00
Brass, heavy	7.75
Brass, light	5.75
Heavy machine composition	9.25
Composition turnings	8.25
Lead, heavy	3.40
Lead, tea	3.15
Zinc scrap	3.50

CLAY PRODUCTS

Flue Lining—Discounts are unchanged at 83% from list. At this discount, the net prices per foot for New York delivery are as follows:

	Weight in lb.	Price per ft.		Weight in lb.	Price per ft.
4½x8½-in.	14	$0.06	8½x18-in.	45	$0.152
4½x13-in.	20	0.076	13x13-in.	45	0.145
7½x7½-in.	15	0.068	13x18-in.	57	0.22
8½x8½-in.	18	0.076	18x18-in.	75	0.34
8½x13-in.	28	0.11			

Sewer Pipe—In the smaller sizes, there has been a slight drop in price, 3- to 24-in. being quoted at a discount of 82%. In the larger sizes, discounts remain unchanged, as follows: 27- and 30-in., 70%; 33- and 36-in., 65%. At these discounts, the net prices per foot in New York are as follows:

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.35
10-in.	0.144	30-in.	1.65
12-in.	0.18	33-in.	2.20
15-in.	0.243	36-in.	2.45

MISCELLANEOUS

Wood Preservatives—Special preservatives for lumber are sold at the following prices per gallon delivered to points in this country: Pentin, a flame proof preservative, 80c. per gal.: Creolin, a creosote, flame proof, 45c. per gal.; Maretin, a preservative for marine use, 60c. per gal.

Lighterage Limits—The free delivery or "Lighterage Limits" in New York City are as follows: In Manhattan, from a point opposite the Fort Lee ferry, south along the Hudson River around the Battery and north along the East and Harlem Rivers to the Jerome Ave. Bridge at 155th St. In New Jersey, south from Fort Lee ferry to Bayonne City, points on the north and east shores at Staten Island, between Bridge Creek (Arlington) and Clifton, both inclusive, and including Elm Park, Erastina and Shooters Island. In Brooklyn, from 69th St., Bay Ridge, north to Pot Cove, Astoria, Long Island City.

Rubber—Prices of rubber show little change, and the supply seems more than sufficient for present needs. There is no embargo, and rubber is coming into the country in good quantities. Prices are as follows, per pound delivered in New York: Up River Para fine, 71 to 72c.; Up River Para coarse, 54 to 55c.; Cauchaou ball 53 to 55c. Scrap rubber is slightly lower, automobile tires being quoted at 5c., bicycle tires at 3 to 3¼c.; solid tires, at 5c.; while airbrake hose is 2½ to 3c., and inner tube 16 to 17c.

Railroad Ties—Business is at a standstill and quotations are nominal. Prices are as follows for yellow-pine ties 7x9 in. by 8 ft. 6 in., 76c.; 6x8 in. by 8 ft., 64c.

Explosives—Dynamite of the kind generally used by contractors is approximately 11@13c. per lb., f.o.b. factory, in ton lots. Blasting powder, classified as "soda" grade, is sold at $1.20@1.40 per keg of 25 lb. in lots of 10,000 lb.

Exploders, per hundred, are sold at the following prices: 4 ft., $3.60; 6 ft., $4.10; 8 ft., $4.60; 10 ft., $5.10; 12 ft., $5.60; 16 ft., $6.60; 20 ft., $7.50; 25 ft., $9.40; 30 ft., $12; 36 ft., $14.60.

Caps in lots of 10,000 are $7@8 per thousand.

Blasting machines for 10 holes are $12; 25 holes, $20; 50 holes, $40; 100 holes, $60.

RAILWAYS

West Virginia—Charleston, Parkersburg & Western R.R.—Preliminary arrangements are being made by this company for the construction of its proposed 56-mile railway from Charleston, W. Va. C. P. Peyton, Charleston, is Ch. Engr.

Mississippi—Cybur, Gulf & Northwestern Ry.—Plans are being prepared by the company for the extension of its railway from Picayune, Miss. Cyril Louisell is Gen. Mgr.

Kentucky—Louisville & Nashville R.R.—This company is preparing to construct a tunnel at Willow Shoals, Ky., which will shorten its line five miles. W. H. Courtenay, Louisville, is Ch. Engr.

Illinois—Wabash R.R.—Plans are being prepared by this company for the construction of a railway from Golconda to Brookport, Ill. A. O. Cunningham, St. Louis, Mo., is Ch. Engr.

Iowa—Charles City Western R.R.—Plans are being prepared by this company for the extension of its railway from Charles City, Iowa, to connect with the Chicago, Great Western line. E. R. Ernsberger, Charles City, Iowa, is Gen. Mgr.

✚Montana—Chicago, Milwaukee & St. Paul R.R. — This company has awarded the contract to the MONTANA POWER CO., Butte, Mont., for the completion of the electrification of its line from Three Forks and Deer Lodge, Mont.

Northern Pacific Ry.—This company has taken over the Gilmore & Pittsburgh R.R., a 120-mile line from Armstead to Salmon City. The new owner plans to extend the line from Armstead to Dillon and Twin Bridges. W. L. Darling, St. Paul, Minn., is Ch. Engr. of the Northern Pacific.

Arkansas—Anderson & Saline River R.R.—Plans are being prepared by this company for the extension of its railway from Clio, Ark. J. H. Allen, Clio, Ark., is Pres. and Gen. Mgr.

Fort Smith, Subiaco & Eastern R.R.—Surveys have been made by this company for the extension of its railway from Scranton to Dardanelle, Ark., about 24 miles. Henry Stroup, Paris, Ark., is Pres. and Gen. Mgr.

Texas—San Benito & Rio Grande Valley R.R.—Plans are being revived by this company for the construction of a railway from Mission, Tex., to Roma, Tex., about 60 miles. S. A. Robertson, San Benito, Tex., is Pres.

Clinton & Oklahoma Western Ry.—See item under Oklahoma.

Texas—Texas, New Mexico & Eastern R.R.—This company is being organized for the purpose of constructing a railway from San Antonio to Lamesa, Tex., about 272 miles. Thomas Moore, Austin, is Ch. Engr.

Oklahoma—A company is being organized to construct a railway from Ivanhoe to Rosston, Okla., about 20 miles. J. H. Morgan, Alva, Okla., is interested.

Clinton & Oklahoma Western Ry.—Extensions from Clinton, Okla., to Panhandle, Tex., and to El Reno, Okla., are contemplated by this company. Guy V. McClure, Clinton, Okla., is Ch. Engr.

Idaho—Oregon Short Line R.R.—The Commercial Club of Caldwell, Idaho, is urging this company to electrify its branch line from Caldwell to Wilder, about 11 miles. Carl Stradley, Salt Lake City, Utah, is Ch. Engr.

✚Arizona—Magna Copper Co.—This company has awarded a contract to McARTHUR BROS., 11 Pine St., New York, N. Y., for constructing a railway from Superior to Webster, Ariz., about 30 miles. Noted Sept. 17.

ELECTRIC RAILWAYS

South Weymouth, Mass.—The Bay State St. Ry. Co. is considering plans for the construction of an electric railway from Montello to South Weymouth. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

New York, N. Y.—(Borough of Brooklyn)—According to press reports the Manhattan & Queens Traction Corporation contemplates the construction of an extension of its line on Sutphin Rd. to Pacific St. and Rockaway Rd. S. B. Severson, Queens Plaza Court, Long Island City, is Secy., Gen. Mgr. and Pur. Agt.

Westfield, N. Y.—The Jamestown, Westfield & Northwestern Traction Co. has completed surveys for the construction of an electric railway from Westfield to the Lake Shore station. George L. Maltby, Jamestown, is Gen. Mgr. and Supt.

Orange, N. J.—The City Commission plans to extend the Central Ave. trolley line from the East Orange terminal to connect with the tracks of the crosstown railway in Orange.

Erie, Penn.—The Buffalo & Lake Erie Traction Co. is preparing to construct about two miles of new track in Erie. A. R. Myers, Erie, is Gen. Mgr.

✚Lancaster, Penn.—The Berks & Lancaster Ry. has awarded the contract for constructing 6½ miles of its line from Kleinfeltersville to Womelsdorf to the J. A. VANDERGRIFT CO., New York, N. Y. This new line will connect the Ephrata & Lebanon Ry. and the Reading and Lancaster lines. Noted July 2.

Middletown, Penn.—The Harrisburg Rys. Co. contemplates the extension of its electric railway from Middletown to Royalton. Frank B. Musser, Harrisburg, is Pres. and Gen. Mgr.

Titusville, Penn.—The Titusville Electric Traction Co. contemplates making extensions to its line. W. J. Smith is Mgr.

Jacksonville, Fla.—The Commissioners of the Port are making preliminary arangements for the construction of a railway on the municipal dock. F. W. Bruce is Ch. Engr.

Covington, Ky.—The South Covington & Cincinnati St. Ry. Co. is making preliminary arrangements for the extension of its Fort Mitchell line to Erlanger. C. R. McKay, First National Bank Bldg., Cincinnati, Ohio, is Gen. Mgr.

Evansville, Ind.—The Evansville & New Harmony Traction Co. has completed surveys and plans to start work in the spring on the construction of an electric railway from Evansville to New Harmony.

Dwight, Ill.—Plans are being considered by the Fox & Illinois Union Ry. Co. for the extension of its electric railway now being constructed from Yorkville to Morris, on to Dwight. F. M. Zimmerman, Yorkville, is Gen. Mgr. and Pur. Agt.

Milwaukee, Wis.—The Milwaukee Electric Ry. & Light Co. has been requested to consider plans for laying double track on its line on Downer Ave. from Hartford and Edgewood Ave. Peter Valier is Mgr.

Cedar Rapids, Iowa—The Iowa Ry. & Light Co. has secured the right-of-way and will soon start work on the construction of an electric railway to connect with the lines of the Waterloo, Cedar Rapids & Northern Ry. R. S. Cook, Cedar Rapids, is Pur. Agt.

St. Paul, Minn.—The extension of its Dale and Forest St. line to Ocean St. in St. Paul is contemplated by the St. Paul St. Ry. Co.

Garden City, Kan.—The Garden City Sugar Co. is preparing plans for the construction of an electric railway from its sugar beet plant to various points in Finney County.

St. Louis, Mo.—The United Ry. Co. of St. Louis is considering plans for the construction of a system of loops in the downtown section of the city. Robert McCulloch, St. Louis, is Pres., Gen. Mgr. and Pur. Agt.

Searcy, Ark.—The Searcy & Kensett Transportation Co. has been granted a franchise to construct and operate an electric railway from Searcy to Kensett, about four miles. H. E. Hill, Searcy, is interested.

Beaumont, Tex.—The Beaumont Traction Co. has been petitioned to consider plans for the extension of its line from Beaumont south to the refinery of the Magnolia Petroleum Co. G. W. Kellogg, Beaumont, is Mgr.

Huntsville, Utah—Surveys are being made by the Ogden, Logan & Idaho Ry. Co. for the extension of its line from Idlerwood to Huntsville.

Tucson, Ariz.—The City Council has granted a franchise to the Tucson Rapid Transit Co. to extend several of its lines in Tucson. Frank E. Russell, Tucson, is Gen. Mgr.

San Francisco, Calif.—Tentative plans are being considered by the City Council for the construction of an electric railway from Keystone to the Hetch Hetchy Valley, about 50 miles. M. M. O'Shaughnessy is City Engr.

LIGHT, HEAT AND POWER

Poughkeepsie, N. Y.—The Central Hudson Gas & Electric Co. contemplates improvements and extensions to its plant at Poughkeepsie, at an estimated cost of $125,000. The plans include an 8000-kw. turbo-generator, an electric crane, construction of new substations and extension of transmission lines. F. M. Stark, Poughkeepsie, is Pur. Agt.

✚Syracuse, N. Y.—The Commissioners of Onondaga County have awarded the contract for power plant, heating and ventilating system at the County Tuberculosis Hospital, to the EDWARD JOY CO., Syracuse, at $76,179.

✚The Syracuse Lighting Co. has awarded the contract for the construction of a new generating station to the TAYLOR-HORNBY CONSTRUCTION CO., at about $7600. The building will be 37x68 ft., one story, steel frame.

Holmesburg, Penn.—It is reported that plans are being prepared for the installation of a new power plant at the Home for the Indigent, Holmesburg.

Johnstown, Penn.—The Dale Light, Heat & Power Co., Johnstown, contemplates building a power plant, estimated to cost $750,000, at Dale, a suburb of Johnstown. C. F. Lancaster is Supt., Mgr. and Cont. Agt.

Pittsburgh, Penn.—Press reports state that bids are being received by George W. Gerwig, Secy. of the Bd. of Education, for electrical work at the McNaugher and Latimer Schools.

Hyattsville, Md.—(Official)—The Mayor and City Council have appointed a special committee to investigate the feasibility of installing an electric light plant in connection with the present municipal water works plant. Two 75-kva. units, 2200 volt, 60-cycle will be required. J. C. Hawkins is a member of the Com.

Bay Minette, Ala.—(Official)—See item under "Water Supply and Irrigation."

Bristol, Tenn.—The Edmondson Electric Co. has begun the construction of a second hydro-electric plant for the development of the water power of this region. The dam in question is across the middle fork of the Holston River near Emory, Va., 25 miles east of Bristol. The machinery will not be installed before next spring, and will have a minimum of 1000 hp. with a maximum of 2000 hp.

Dresden, Tenn.—See item under "Water Supply and Irrigation."

Paducah, Ky.—The Kentucky Southwestern Electric Ry., Light & Power Co. is considering the construction of a power house, three substations, a repair shop, car houses, an 1800-ft. trestle and several smaller ones, in connection with a railway from Paducah to Murray, a distance of 58 miles. H. C. Rhodes is Pres. of the company.

✚Alliance, Ohio—The Building Commission of the new City Hall has awarded the contract for the heating and plumbing apparatus in the building to ELLIS & McDONALD, Alliance, at $10,615; the contract for the electric lighting was awarded to the HARBAUGH CONSTRUCTION CO., Alliance, at $1070.

Cleveland, Ohio—(Official)—Bids will be received until noon, Dec. 4, by the Commissioner of Purchases and Supplies, City Hall, for general service pump and equipment for the municipal electric light plant. F. W. Ballard, 1443 East Third St., is Comr. of Light and Heat Dept.

✚Anderson, Ind.—The Board of Public Works has awarded the contract for furnishing the municipal electric light and power plant with a generator and other equipment to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburgh, Penn., at $43,700. The lowest bid for furnishing a turbine generator was that of the Allis-Chalmers Co., Milwaukee, at $37,000.

Tekonsha, Mich.—The City Council has granted a franchise to the Warner Co., Davenport, Iowa, to install and operate an electric-light in Tekonsha.

Kankakee, Ill.—Bids will be received until Dec. 14, by the Board of Administration, Capitol Bldg., Springfield, Ill., for heating, electrical work and plumbing in a contagious disease building at the Kankakee State Hospital. James B. Dibelka, 29 South La Salle St., Chicago, is State Arch.

Lewistown, Ill.—Press reports state that the Lewistown Electric Co. will build a transmission line from its plant at this point four miles east into the country for the purpose of supplying electric current to the farmers along the line. C. J. King is Secy. and Supt. of the Lewistown Electric Co.

Belgium, Wis.—It is reported that the Milwaukee Northern Ry. Co., Cedarburg, Wis., plans to install a substation in Belgium to supply energy for lamps and motors in the surrounding territory. John St. John, Cedarburg, is Gen. Mgr. and Cont. Agt. for the Milwaukee Northern Co.

+Oelwein, Iowa—The Fayette Utilities Co., Oelwein, has awarded the contract for the construction of a power plant to the SCHMIDT BROS. CONSTRUCTION CO., 105 North Park St., Chicago, Ill.

+Aurora, Minn.—The Village Council has awarded the contract for the construction of a power house to the BOWBURKE CONTRACTING CO., St. Paul, Minn., at $13,661. The plant, with equipment, will cost about $27,000. Noted Nov. 5.

Canton, Kan.—It is reported that the municipal electric light plant was recently destroyed by fire at a loss of about $5000.

Kansas City, Kan.—The city will soon purchase, for its pumping station at Quindaro, a 5000-hp. feed water heater, a 500-hp. steam turbine driven boiler feed pump, a 20,000,000-gal. motor driven centrifugal pump and three 400-kw. transformers. W. M. Barclay is City Engr.

Pawnee Rock, Kan.—T. J. Stinson, Spearville, Kan., has purchased the electric-light plant at Pawnee Rock. He will reopen the plant, which has been closed down, and will install new engines and dynamos.

Wellington, Kan.—(Official)—Bids will be received until 2 p.m., Dec. 17, by the City Commissioners for engines, pumps, boilers, heater, switchboard and miscellaneous electric apparatus for the proposed new water works system and light plant in the city and substation at the Mayfield wells. Alternate bids will be accepted on steam turbines and cross compound corliss engines. The Benham Engineering Co., American National Bank Bldg., Oklahoma City, Okla., is Engr. in Charge.

Chamberlain, S. D.—The power house of the Chamberlain Gas Light & Power Co. was recently damaged by fire. It is reported that the plant will be rebuilt at once. Guy Kelley is Secy. and Mgr.

Michigan, N. D.—Preparations are being made for the installation of a municipal electric-light plant. Bonds have been voted for this purpose.

Hale, Mo.—The Citizens Light, Water & Power Co. contemplates building a new 16x60-ft. power house, and installing two boilers and a corliss engine. Fred Helbauer is Pres., Secy. and Treas.

Corpus Christi, Tex.—Henry M. Wallace, Pres. of the Corpus Christi Gas Co., plans to lay a natural gas pipe line from the White Point field, near Corpus Christi, to San Antonio, 150 miles. Gas will be supplied to a number of towns along the route. It is estimated that the project will cost about $1,500,000.

Groesbeck, Tex.—The Driscoll Pipe Line Co. has been incorporated in Limestone County, with a capital stock of $200,000, and plans to lay a natural gas pipe line from the Mexia fields to Corsicana and intermediate towns, and a second line from the same fields to Austin, about 150 miles. The incorporators are: Timothy J. Driscoll, Indianapolis, Ind., Lewis E. Willett and Percy A. Little, Buffalo, N. Y., Cornelius T. Herring, Amarillo, Tex.

Cushing, Okla.—The Cushing Electric Light & Power Co. plans to install a 500-kw. generating unit, including generator direct-connected to a corliss engine, boilers of return tubular type and some other equipment, at a total cost of about $30,000. H. Askin is Secy. and Mgr.

Santa Fé, N. M.—James A. French, State Engr., has approved the plans of John Borradelle and associates, for the establishment of a hydro-electric plant in White Rock Cañon, 15 miles from Santa Fé. A transmission line will be constructed from the plant to Santa Fé, Albuquerque, Las Vegas and Socorro.

Seattle, Wash.—The Board of Public Works has received the following bids for furnishing distributing transformers for the municipal electric-light system; Pittsburg Transformer Co., Pittsburgh, Penn., $28,434; Maloney Electric Co., $30,086; W. R. Hendry Co., Armour Bldg., Seattle, $29,127; General Electric Co., $29,137; Duncan Electric Mfg. Co., $36,853; Kuhlman Electric Co., $30,192; Allis-Chalmers Co., $29,808; Packard Electric Co., $29,779; Westinghouse Electric & Mfg. Co., $34,443.

Newport, Ore.—The Yaquina Electric Co. has increased its capital stock from $20,000 to $40,000 for the purpose of making additions and improvements in its system. The company is developing power sites in the vicinity of Yaquina, Ore. George Blanchard, Newport, is Mgr. and Cont. Agt.

Silverton, Ore.—The City Council is considering plans for the installation of an electric lighting system for the entire city. It is reported that bids will soon be asked for furnishing and installing the equipment. Bids will also be asked for supplying energy to operate the system for a period of years.

Placerville, Calif.—It is reported that the Standard Oil Co. will build a $20,000 substation at Placerville.

BRIDGES

+Portland, Maine—The Commissioners of Cumberland County have awarded contracts for the construction of the bridge between Portland and South Portland to: The HOLBROOK, CABOT & ROLLINS CORPORATION, Boston, Mass., at $352,135, for foundation work, including piling; PHOENIX BRIDGE CO., Phoenixville, Penn., at $139,650, for the steel superstructure of the middle portion, including the draw; T. STUART & SONS CO., Newton, Mass., at $250,000, for the concrete superstructure of the remainder of the bridge. Noted Sept. 24, Oct. 1, Nov. 12 and 19.

Concord, N. H.—(Official)—It is expected that bids for the Pembroke Bridge over the Merrimack River will be received about Dec. 15. The bridge will be about 470 ft. long, four spans, two pony and two high trusses. W. B. Howe is City Engr. Noted Nov. 19.

+Charlotte, N. Y.—The Monroe County Building Commission and the Board of County Supervisors, Rochester, have awarded the contract for the construction of a Strauss double leaf bascule bridge over the Genesee River at Charlotte, to the PENN BRIDGE CO., Beaver Falls, Penn., at $231,940. List of bids noted Aug. 13.

Whitehall, N. Y.—The residents of Whitehall will ask the State Legislature for an appropriation of $25,000 for the purpose of repairing the South Bay Bridge, which is considered unsafe at present.

Perth Amboy, N. J.—Bids will be received until Dec. 7, by the Board of Chosen Freeholders of Middlesex County, New Brunswick, for the construction of pile and timber emergency rest piers for the Amboy Bridge over the Raritan River. Alvin B. Fox, Perth Amboy, is County Engr. Noted Nov. 12.

Bids for furnishing and placing 40-, 60- and 80-ft. piles for the Amboy Bridge were received from: General Contracting & Engineering Co., 29 Broadway, New York, N. Y., $8242; Henry H. Holmes, Jersey City, N. J., $9426, and Rhodes & Manvei, Elizabetn, N. J., $11,074.

+Pittsburgh, Penn.—The Commissioners of Allegheny County have awarded the contract for the construction of Bridge No. 15 over Pine Creek to the PENN BRIDGE CO., Beaver Falls, Penn., at $15,980.

+Princeton, W. Va.—The Commissioners of Mercer County have awarded the contract for the construction of three reinforced concrete bridges across the Bluestone River to the FARRIS BRIDGE CO., Pittsburgh, Penn., at $12,800 for the three. Noted Nov. 19.

Folkston, Ga.—Bids will be received until Dec. 15, by the Commissioners of Charlton County, for the construction of a bridge over the St. Mary's River between Charlton County and Nassau County, Florida.

Rome, Ga.—(Official)—Applications will be received by the Commissioners of Floyd County on Dec. 8, for the position of Consulting Bridge Engineer. The county will build three bridges, two of concrete, each about 300 ft. long, and one of steel, about 250 ft. long. All three will have 40-ft. roadways, and an 8-ft. sidewalk on each side of the roadway. J. G. Pollock is Chn. of the Comrs. Kieffer Lindsey is County Engr.

+Wetumpka, Ala.—The Yellow Pine Lumber Co. has awarded the contract for bridge construction in connection with building 10 miles of railway to J. M. GILLIS & SON, Brewton, Ala.

Pittsboro, Miss.—Bids will be received until Dec. 8, by the Highway Commissioners of Supervisors' District No. 1 of Calhoun County, for the construction of several bridges on the road from Pittsboro to the eastern boundary line of the district. A. A. Bruner, W. R. Byars and R. F. Provine are Highway Comrs.

Paducah, Ky.—See item under Light, Heat and Power.

Marietta, Ohio—(Official)—Bids will be received until 1 p.m., Dec. 16, by the Commissioners of Washington County, for the construction of the east abutment of the Elk Run Bridge, Lawrence Township. W. B. Alexander is County Audr.

Covington, Ind.—Plans are being prepared for rebuilding the bridge over the Wabash River at Covington, and it is expected that the contract will be awarded at the January meeting of the Commissioners of Fountain County. The west span, which was not damaged, will be left standing, and two new spans will be built at the east end, replacing the two which were entirely burned.

Richmond, Ind.—Press reports state that plans are almost completed for a new bridge over the Whitewater River, and that bids for its construction will soon be asked. Fred R. Charles is City Engr.

+Detroit, Mich.—The Common Council has awarded the contract for the construction of a concrete bridge over Connors Creek to THOMAS E. CURRIE, 20 McGraw Bldg., Detroit, at $5400.

Marquette, Mich.—Bids will be received until 2:30 p.m., Dec. 7, by Daniel S. Donovan, City Clk., for the construction of a 60-ft. girder bridge over the Carp River at Lake St.

Taylorville, Ill.—(Official)—Bids will be received until 9 a.m., Dec. 9, by C. A. Penington, County Supt. of Highways, Christian County, for the construction of two bridges; one, between Johnson and Taylor Townships, of three 90- and one 100-ft. span, requiring about 600 cu.yd. concrete and 19,830 lb. of reinforcing steel; estimated cost, $15,350. The other, in Johnson Township, will have three 85-ft., one 100- and one 70-ft. span, requiring 612 cu.yd. concrete and 11,630 lb. reinforcing steel; estimated cost, $17,000.

St. Paul, Minn.—It is reported that the City Council is considering plans for the construction of a new bridge over Marshall Ave. Oscar Claussen is City Engr.

+Independence, Kan.—(Official)—The Commissioners of Montgomery County have awarded the contract for repairing the McTaggart Bridge over the Verdigris River to the ROCHESTER BRIDGE CO., Rochester, Ind. Noted Nov. 19.

+Sioux Falls, S. D.—(Official)—The Commissioners of Minnehaha County have awarded the contract for all bridge work in the county during 1915 to the WESTERN BRIDGE & CONSTRUCTION CO., Omaha, Neb. Harry H. Howe is County Audr. Noted Nov. 12.

Chouteau, Mont.—(Official)—The Commissioners of Teton County will probably take no further action before next March in the matter of four new bridges to be built in the district, and for which plans are in preparation. E. C. Garrett is County Clk. Noted Nov. 19.

Dallas, Tex.—The City Commissioner has rejected as too high all bids received Nov. 16 for the construction of a reinforced-concrete bridge over Turtle Creek at Bowen St. This is the third time that bids for this work have been rejected. S. B. Scott is Street Comr. Noted Oct. 15.

✚Houston, Tex.—(Official)—The Commissioners Court of Harris County has awarded the contract for the construction of six concrete culverts and one combination concrete and timber bridge on the Atascoceta Road to J. C. GUTHRIE, Pasadena, Tex. H. L. Washburn is County Audr. Noted Nov. 12.

✚Pawnee, Okla.—(Official)—The Commissioners of Pawnee County have awarded the contract for the construction of two steel bridges with concrete floors to be erected upon foundations already in place, to the OREGONIA BRIDGE CO., Lebanon, Ohio, and Oklahoma City.

Boulder, Colo.—The City Council plans to build a bridge over Boulder Creek at 11th St. as soon as the necessary financial arrangements can be made. H. E. Phelps is City Engr.

Colorado Springs, Colo.—It is reported that the Atchison, Topeka & Santa Fé Ry. will build a new overhead bridge at Cache la Poudre St., estimated to cost $25,000. C. F. W. Felt, Chicago, Ill., is Ch. Engr.

✚St. Thomas, Nev.—The Commissioners of Clark County, Las Vegas, have awarded the contract for the construction of a steel bridge over the Virgin River near St. Thomas to CAMPBELL & TURNER, at $9210.

Seattle, Wash.—It is reported that the entire issue of $829,500 in bonds for the construction of bridges over Lake Washington Canal has been sold, and that the construction of these bridges will be begun in the early spring. A. H. Dimock is City Engr. Noted July 23, Aug. 27 and Oct. 8.

✚Snoqualmie, Wash.—The Commissioners of King County, Seattle, have awarded the contract for the construction of the bridge over Tokul Creek to NETTLETON, BRUCE & ESHBACH, American Bank Bldg., Seattle, at about $5000. Noted Aug. 6, Sept. 3 and 17.

Salem, Ore.—The Marion County Court has had plans prepared by Henry L. Bowlby, State Highway Engr., for the construction of a bridge over the Willamette River at this point. The costs, for various plans, range from $188,583 to $273,294.

Hanford, Calif.—The Board of Supervisors of Kings County is receiving bids for the construction of a bridge over Cross Creek at Seventh St., Hanford.

✚Modesto, Calif.—The Board of Supervisors of Stanislaus County has awarded a contract for the construction of a reinforced concrete bridge and syphon to R. M. SIMPSON, at about $5000.

San Francisco, Calif.—The Board of Supervisors contemplates the reconstruction of the Fourth St. Bridge at an estimated cost of $125,000. M. M. O'Shaughnessy is City Engr.

✚San Gabriel, Calif.—The City Trustees have awarded the contract for the construction of two reinforced-concrete bridges at Longdon Ave. and Hermosa Drive to the J. M. MONTGOMERY CONSTRUCTION CO., Alhambra, Calif., at $3474 and $3293, respectively.

Sanger, Calif.—The Board of Supervisors, of Fresno County, Fresno, has engaged the Federal Engineering Co., Los Angeles, to prepare plans for a concrete bridge, about 400 ft. long, estimated to cost $20,000, over the Kings River above Sanger on the new Fred Turner Rd.

✚San Luis Obispo, Calif.—The Board of Supervisors of San Louis Obispo County has awarded the contract for the construction of a reinforced-concrete bridge over Atascadero Creek to PAUL H. EHLERS, 5618 Harold Way, Hollywood, Calif., at $7900.

Quebec, Que.—It is proposed to build a new steel bridge, estimated to cost about $125,000, to replace the present Bickell's Bridge, which is reported to be unsafe. The Provincial Legislature will be asked for funds for the purpose.

Ottawa, Ont.—Press reports state that the City Council is considering the construction of a bridge with steel superstructure and concrete abutments on Fairmont Ave. F. C. Askwith is City Engr.

Vancouver, B. C.—Ralph Modjeski, Chicago, Ill., engaged to pass upon the bids submitted for the construction of the Second Narrows Bridge over the Burrard Inlet, has reported that, in his opinion, all bids are insufficient in certain details, and recommends that new bids be asked. The bridge will cost about $1,800,000. Noted Jan. 22, Feb. 12, Apr. 16, May 7 and July 16.

WATER SUPPLY—IRRIGATION

✚★Boston, Mass.—Bids were received, Nov. 23, by the Metropolitan Water and Sewerage Commission for 3930 tons of 60-in. c.-i. pipe and 120 tons of specials. The contract has been awarded to UNITED STATES CAST IRON PIPE & FOUNDRY CO., at $19.60 and $49 per ton, respectively, total of $82,908. Other bids were: Warren Foundry & Machine Co., $87,547; R. D. Wood & Co., $90,673; Westinghouse Machine Co., $100,991; and the Standard Cast Iron & Foundry Co., Dexter Brackett, 1 Ashburton Pl., is Ch. Engr. Noted Nov. 19.

✚Boston, Mass.—The contract for laying two miles of 16-in. high service pipe in South Boston to the Commonwealth docks, including 600 ft. of flexible 16-in. jointed pipe has been awarded to BRUNO & PETTITTI, at $9798. L. K. Rourke is Comr. of Pub. Wks. Bids opened, Nov. 20. Noted Nov. 12.

Fitchburg, Mass.—Plans are being prepared by Metcalf & Eddy, Consult. Engrs., Boston, for the construction of an earth dam dike, appurtenant structures and roads for the new Ashby reservoir of the Fitchburg water supply system. The Water Commissioners expect to advertise for bids in the near future. The earth dam and dike will be about 1100 ft. long each with maximum heights of about 25 ft. and 20 ft., respectively. Both the dam and dike will have a reinforced concrete curtain wall. There will be about 7000 lin.ft. of gravel road construction.

Le Roy, N. Y.—J. B. Wells, Rochester, has been retained by the Board of Water Commissioners to make surveys for the construction of a new water system. The estimated cost is $110,000.

New York, N. Y.—(Borough of Manhattan)—(Official) Bids will be received until 2 p.m., Dec. 4, by William Williams, Municipal Bldg., for laying water mains and appurtenances in Third, Madison and Park Ave., and in East 42d St. and East 53d St., Borough of Manhattan.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received until 2 p.m., Dec. 11, by William Williams, Comr. Water Supply, Gas and Electricity for removing the present foundation and erecting a new foundation under the water ends of No. 1 Worthington 20 Mg triple expansion pumping engine at the Ridgewood North Side pumping station. For removing two boilers and their appurtenances from the Milburn pumping station, tranhporting and reërecting one in the Woodhaven pumping station and one in the Agawam pumping station with new stacks, piping and other appurtenances.

✚Troy, N. Y.—The contract for laying pipe has been awarded to FLOOD & VAN WERT, Hudson Falls, at $24,800. Noted Nov. 12.

★Wappingers Falls, N. Y.—(Official)—Bids were received, Nov. 18, by the Board of Trustees for constructing a water system as follows: Abner Harper, Inc., Newburgh, N. Y., $51,507; Christopher & Lockwood, Peekskill, N. Y., $52,385; Kellam & Shaffer Co., Schenectady, N. Y., $53,631; Thompson & Wooster, Walden, N. Y., $53,773; Both & Weston, Laurence, N. Y., $55,082; Louis B. Harrison, 220 Broadway, New York, N. Y., $55,127; Lagan Construction Corporation, Albany, N. Y., $57,862; James McAvoy, 315 East 127th St., New York, N. Y., $58,322; Samuel Beskin, Beacon, N. Y., $58,381; F. N. Lewis, 411 Manhattan Ave., New York, N. Y., $58,540; Burns & Lyons, 147 East 125th St., New York, N. Y., $59,207; John I. McDonald, 42 Market St., Poughkeepsie, N. Y., $59,730; Peekskill Construction Co., 415 South St., Peekskill, N. Y., $60,136; H. K. Corbin, 170 Broadway, New York, N. Y., $60,314; Frank Puglia, 34 Cross St., Paterson, N. J., $61,068; Young & Hyde Inc., Produce Exchange Bldg., New York, N. Y., $61,436; B. G. Coon Construction Co., Luzerne, Penn., $61,997; James F. Leary Construction Co., 224 Cutler Bldg., Rochester, N. Y., $62,307; Amanna & Sullivan, 24 E. 198th St., New York, N. Y., $62,516; Gruner & Hollenbuek, Harriman, N. Y., $62,629; William S. Mitchell, 2409 Walton Ave., Bronx, N. Y., $62,737; Daly & Merritt, Port Chester, N. Y., $63,114; O'Rourke Contracting Co., 12 North Broadway, Yonkers, N. Y., $64,044; Suburban Engineering Co., 15 West 38th St., New York, N. Y., $65,484; Gardner & Von Cleave, Asbury Park, N. J., $65,800; R. B. Kennedy, 302 Paul Bldg., Utica, N. Y., $66,675; Joseph L. Sigreto, Woodhaven, N. Y., $67,056; Barbara & D'Aurio Co., 90 Franklin St., Waterbury, Conn., $67,634; James J. Tusco, 671 Broad St., Newark, N. J., $68,168; Eon Engineering & Contracting Co., Queens Plaza Court Bldg., Long Island City, N. Y., $68,541; Samuel Boun, 654 Barnett Ave., Syracuse, N. Y., $69,651; D. M. Rosser, Kingston, Penn., $70,863; H. J. Zevely, Morgantown, W. Va., $71,779; J. B. Pennell, Bradford Bldg., Yonkers, N. Y., $74,013; Petrossi Bros., 39 Woodbridge St., Hartford, Conn., $76,080; Joseph Johnson's Sons, 455 Broadway, W. New Brighton, N. Y., $78,058; Michael Spino, 290 Main St., Beacon, N. Y., $79,984; Hope Engineering & Supply Co., 822-826 Farmer's Bank Bldg., Pittsburgh, Penn., $84,233; Hanover Contracting Co., 271 West 125th St., New York, N. Y., $84,421; Pratt, Reed & Phillips, Schenectady, N. Y., $85,467, and L. M. Camarco, 37 Housatonic St., Lee, Mass., $98,837. H. L. Sterling, 56 Second St., Newburgh, is Engr. Noted Nov. 12.

✚Asbury Park, N. J.—(Official)—The contract for laying a 24-in. c.-i. pipe from the pumping station to Main and Asbury Ave. has been awarded to PARTRIDGE & BURKE, Hohokus, N. J.

Newark, N. J.—The Board of Freeholders has approved plans prepared by Runyon & Carey, Newark, for the construction of a new water system at the Overbrook Hospital.

Greencastle, Penn.—Bonds for $5000 have been voted by the citizens, the proceeds of which will be used for making extensions to the water system.

✚New Holland, Penn.—The contract for laying water mains has been awarded by the New Holland Water Co., to J. U. PRITCHEY & SON.

★Baltimore, Md.—Bids will be received until Dec. 9, by the Board of Awards, City Hall, for making extensions to distributing mains, and for improvements to Gunpowder Supply, under Contract No. 26. John Hubert is Pres. Bd. of Awards. Ezro B. Whitman is Consult. Engr.

✚★Baltimore, Md.—Bids were received, Nov. 18, for installing heating systems at Montebello Filters and Upper Service Pumping Station as follows: ENTERPRISE STEAM & HOT WATER CO., 407 North Howard St., Baltimore at $16,224 (awarded contract); Louis F. Andrae & Co., Baltimore, $16,317; Crook, Kries & Co., Baltimore, $16,417; L. B. Jacobs, Newark, Del., $16,834; Walter E. Hill & Co., Baltimore, $16,938; Riggs, Distler & Stringer, Inc., Baltimore, $17,962; Lynch & Woodward, Boston, Mass., $18,267; William E. Wood Co., Baltimore, $19,055; Wanner Steam & Hot Water Heating Co., Baltimore, $18,786; R. P. Dobson & Co., Baltimore, $20,206; John W. Danforth Co., Buffalo, N. Y., $21,419 and William A. Pope, Chicago, Ill., $22,635. Noted Nov. 5.

Lumberton, N. C.—The installation of a filtration plant at the municipal water system is contemplated by the Council. W. G. Pitman is Supt. of Water Wks.

✚★Columbus, Ga.—Contracts have been awarded for the construction of a water system as follows: Clear water basin to F. A. PIERCE, Columbus, at $14,132; coagulating basin, to F. A. PIERCE, at $11,920; sedimentation basin to NICHOLAS CONTRACTING CO., Atlanta, at $22,497; power station to F. A. PIERCE, at $5916; laying 15 miles of pipe to JAMES T. CARROLL & CO., St. Louis, Mo.; filter house to F. A. PIERCE, at $9682; and for pumps and motors to MORRIS MACHINE WORKS, Baldwinville, N. Y., at $4698. Bids opened Nov. 17. Noted Oct. 29.

Bay Minette, Ala.—(Official)—Bids will be received until 8:15 p.m., Dec. 15, by W. D. Stapleton, Mayor, and the Council for constructing a water system, and electric light plant. Edgar B. Kay is Engr. Noted Sept. 24.

+New Orleans, La.—The contract for installing water and sewer systems, boilers and pumps at the Louisiana Lepers' Home has been awarded to MONTAGNE BROS., Abbeville, La. Bids opened Nov. 10. Noted Oct. 29.

Dresden, Tenn.—The citizens on Nov. 21 voted in favor of issuing $27,000 in bonds, the proceeds of which will be used for the construction of a water system and electric light system. Noted Nov. 5.

Henderson, Ky.—The Board of Water Commissioners plans to improve the water system at an estimated cost of $100,000. Pollard & Ellms, Cincinnati, Ohio, are Engrs.

Sebree, Ky.—Plans have been prepared by William Barrows for the construction of a water system. Noted Nov. 19.

Cleveland, Ohio—Bids will be received until Dec. 8, for installing a filter and equipment at the filtration plant. Noted Nov. 5.

All bids received Oct. 21, for low lift centrifugal pumps, have been rejected. Charles F. Schultz, City Hall, is Comr., Div. of Water. Noted Oct. 8.

Cuyahoga Falls, Ohio—The city plans to install a 375,000-gal. centrifugal pump for the municipal water system. L. F. Cook is Supt.

East Palestine, Ohio—The village contemplates constructing a water system for the Hill district at an estimated cost of $40,000.

Lowellville, Ohio—(Official)—Bids will be received until Dec. 21, for the purchase of $33,000 in bonds the proceeds of which will be used for the construction of a water system. C. W. Baker is Clk. and William Wilson, Elks Bldg., Youngstown, is Engr. Noted May 28.

Pataskala, Ohio—An election will be held, Dec. 21, to vote on the question of issuing bonds for $25,000, the proceeds of which will be used for the installation of a water system. Noted Nov. 5.

Wooster, Ohio—The city plans to construct a new water system, estimated to cost $125,000. R. H. Hunter is Engr.

Zanesville, Ohio—Chester & Fleming, Consult. Engrs., Pittsburgh, Penn., are preparing plans for the construction of a filtration plant. J. G. Peterson is Pres. of the City Council. Noted Oct. 15.

Madison, Ind.—(Official)—The city contemplates drilling wells and installing an air lift pumping system for the water system. John W. Moore, 3342 North Illinois St., Indianapolis, is Consult. Engr.

Albion, Mich.—W. G. Clark, Engr., Toledo, Ohio, has been retained by the city to make an investigation for the extension of the municipal water system. Bonds have been voted. Noted Sept. 17.

Benton Harbor, Mich.—A special election will be held, Dec. 8, to vote on the question of issuing bonds for $60,000, the proceeds of which will be used for the construction of a water system. B. Spaulding is City Clk.

Detroit, Mich.—(Official)—Bids will be received by the Board of Water Commissioners until 2 p.m., Dec. 8, for water meters. H. A. Gilmartin is Secy, of Bd.

Lansing, Mich.—The city contemplates constructing a belt line of water mains, estimated to cost $50,000. W. F. Sullivan is Pres. of the Water Works and Electric Light Bd.

Muskegon Heights, Mich.—The city has sold $25,000 in bonds, the proceeds of which will be used for the extension of the water system. Noted Aug. 13.

Royal Oak, Mich.—The citizens on Nov. 10, voted in favor of issuing $27,500 in bonds, the proceeds of which will be used for the extension of the water mains and for the construction of a new pumping station.

Joliet, Ill.—The bid of the Newkirk & Powers Construction Co. for the construction of a reservoir has been rejected by the city. Noted Nov. 12.

St. Charles, Ill.—Bids will be received until 7 p.m., Dec. 7, by the Board of Local Improvements for constructing a pipe line in the following streets: East Fifth; North and West Seventh St. The Central Engineering Co., St. Charles, is Engr.

Sparta, Ill.—Press reports state that at a recent election the citizens voted to issue bonds, the proceeds of which will be used for the construction of a water system.

Sheboygan Falls, Wis.—At a recent election the citizens defeated the bond issue, the proceeds of which were to be used for the construction of a water system. Noted Nov. 12.

Taycheedah, Wis.—A water system will be installed at the Industrial School for Girls. W. G. Kirchoffer, Madison, is Engr.

Osawatomie, Kan.—An election will soon be held to vote on the question of issuing bonds for $40,000, the proceeds of which will be used for making extensions and remodeling the water system. Noted Sept. 10.

Wellington, Kan.—(Official)—See item under Light, Heat and Power.

Tecumseh, Neb.—The city plans to lay two miles of 6-in. wood pipe. W. R. Tasker is Supt.

Mott, N. D.—At a recent election the citizens voted to issue $16,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Nov. 19.

Edina, Mo.—Bonds for $20,000 have been voted by the citizens, the proceeds of which will be used for the installation of a water system.

Aspermont, Tex.—A municipal water system will be constructed at Aspermont. The estimated cost is $18,000.

Big Springs, Tex.—Plans are being prepared to lay 8000 ft. of 8-in. water mains and 17,000 ft. of 6-in. mains. Fire hydrants will also be installed. The estimated cost is $25,000.

Brady, Tex.—The citizens contemplate installing a municipal water system.

Corpus Christi, Tex.—(Official)—Bids will be received until 4 p.m., Dec. 29, by F. J. Mulligan, City Secy., for the construction of a water system. Noted Nov. 19.

Kiefer, Okla.—(Official)—Rollins & Co., 439 Midland Bldg., Kansas City, Mo., have been retained to prepare plans for the construction of a water system at Kiefer, at an estimated cost of $60,000.

Anacortes, Wash.—The City Council contemplates purchasing the Anacortes Water Co. and making improvements estimated to cost $65,000.

Tacoma, Wash.—The City Council plans to construct wooden water mains and install hyd ants in 24th St. from Washington to Stevens St. W. C. Raleigh is City Engr.

Ashland, Ore.—Bonds will soon be issued, the proceeds of which will be used for the improvement of the water and light systems.

St. Johns, Ore.—The City Council contemplates purchasing the water system and making extensions to it.

Warrenton, Ore.—At a special election bonds for $150,000 were voted, the proceeds of which will be used for the construction of a municipal water system. Noted Aug. 13.

+Glendora, Calif.—The contract for installing a 120-hp. Snow Diesel engine for the water system has been awarded to H. R. WORTHINGTON CO., at $8700.

Red Bluff, Calif.—An election will be held Dec. 10, to vote on the question of issuing bonds for $85,000, the proceeds of which will be used for the installation of a municipal water system. Noted Oct. 1.

Susanville, Calif.—On Nov. 23, the citizens voted in favor of issuing bonds for $50,000, the proceeds of which will be used for the construction of a municipal water system. Noted Nov. 5.

Aylmer, Que.—The Provincial Government has authorized the Town Council to construct a filtration plant for the water system.

Mimico, Ont.—The Council has authorized the construction of water and sewer systems, estimated to cost $125,000. E. A. James is Engr.

Toronto, Ont.—(Official)—Bids will be received until noon, Dec. 8, by H. C. Hocken, Chn. Bd. of Control, for the following supplies: Brass and bronze castings, brass work for house services, c.-i. pipe, hydrants, lead pipe, special castings and stop valves.

SEWERS

+Boston, Mass.—The contract for replacing wooden sewers in several streets has been awarded to TIMOTHY J. O'CONNELL.

Valley Falls, R. I.—The installation of a sewer system is contemplated by the citizens. An election will be held, Dec. 14, to vote on the question.

Warren, R. I.—The Town Council has authorized the construction of a sewer system.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received until 11 a.m., Dec. 10, by Maurice E. Connolly, Pres. of the Borough of Queens, for constructing a sewer in Forest Ave. from Myrtle Ave. to Halleck Ave., Second Ward in Beaufort Ave. from Briggs Ave. to Lefferts Ave., Fourth Ward; in Wilbur Ave. from William St. to Ely Ave., First Ward; in Birch St. Jamaica Ave. to Hillside Ave., Fourth Ward and for constructing receiving basins and appurtenances on Purvis St. and Thompson Ave., First Ward.; on Twelfth Ave. and Newtown Road, First Ward; on Woolsey Ave. and Seventh Ave.; Sixth Ave. and on Park Pl., First Ward and for reconstructing and repairing siphon and appurtenances under Broadway, Elmhurst, L. I. (known as Horse Brook Siphon), Second Ward.

★Wappingers Falls, N. Y.—(Official)—Bids were received, Nov. 18, for constructing a sewer system as follows: H. L. Armando, Boston, Mass. (informal), $37,513; Evergreen Construction Co., 244 Jackson Ave., Long Island City, N. Y., $67,328; Kellam & Shaffer Co., Schenectady, N. Y., $67,477; G. B. Coon Construction Co., 274 Union St., Luzerne, Penn., $68,796; Samuel Beskin, Beacon, N. Y., $69,051; Both & Weston, Laurence, N. Y., $70,695; Christopher & Lockwood, Peekskill, N. Y., $73,278; R. B. Kennedy, 302 Paul Bldg., Utica, N. Y., $73,673; Langan Construction Corporation, Albany, N. Y., $74,405; Canedella & Co., 68 School St., Milford, Mass., $74,942; James F. Tusco, 671 Broad St., Newark, N. J., $75,143; James McAvoy, 315 East 127th St., New York, N. Y., $75,975; Amanna & Sullivan, 24 East 198th St., New York, N. Y., $76,380; Daly & Merritt, Port Chester, N. Y., $77,349; Frank Puglia, 34 Cross St., Paterson, N. J., $78,058; John I. McDonald, 42 Market St., Poughkeepsie, N. Y., $78,775; H. W. Golden & Son, Inc., 756 Jacob St., Troy, N. Y., $79,032; Samuel Boun, 654 Burnett Ave., Syracuse, N. Y., $79,105; John W. Collins, 1533 Wright St., Flint, Mich., $79,127; J. F. Leary Construction Co., 224 Cutler Bldg., Rochester, N. Y., $79,665; Harrison & Burton Co., 220 Broadway, New York, N. Y., $80,133; D. M. Rosser, Kingston, Penn., $80,446; Joseph L. Sigretto & Co., Woodhaven, N. Y., $81,404; Gardner & Von Cleave, Asbury Park, N. J., $82,132; Berandino Silvester & Co., 19 Dartmouth St., Hartford, Conn., $83,180; Briggs & McLaughlin, 337 East 134th St., New York, N. Y., $83,584; Barbara & D'Aurio Co., 90 Franklin St., Waterbury, Conn., $83,735; H. J. Zevely, Morgantown, W. Va., $85,349; Petrossi Bros., 39 Woodbridge St., Hartford, Conn., $90,117; Peekskill Construction Co., 415 South St., Peekskill, N. Y., $90,781; Green Contracting Co., 734 Vernon Ave., Long Island City, N. Y., $92,985; Suburban Engineering Co., 15 West 38th St., New York, N. Y., $93,511; J. B. Pennell & Co., Radford Bldg., Yonkers, N. Y., $94,003; Pioneer Contracting Co., New Rochelle, N. Y., $95,547; Michael Spino, 290 Main St., Beacon, N. Y., $96,237; Pratt, Reed & Philips, Schenectady, N. Y., $97,652 and Joseph Johnson's Sons, 455 Broadway, W. New Brighton, N. Y., $101,065. H. L. Sterling, 56 Second St., Newburgh is Engr. Noted Nov. 12.

Gloucester, N. J.—The City Council has appointed a committee to investigate the feasibility of installing a sewage disposal plant. Charles Fowler and Harlan S. Miner are members of the Comn

✝Manasquan, N. J.—The contract for laying 4000 ft. of sewer pipe, 4200 ft. of water pipe and installing a clarification tank has been awarded to JOHN F. McGREEVY, Manasquan, at $8010. Noted Nov. 12.

★Newark, N. J.—(Official)—Bids will be received until 2 p.m., Dec. 22, by the Passaic Valley Sewerage Commissioners for constructing Section 14 of the Main Intercepting Sewer in Passaic. For details see advertisement under "Contracts To Be Let."

Oaklyn, N. J.—Plans are being prepared for the installation of vitrified tile sewers and a sewage plant.

★Paterson, N. J.—(Official)—Bids will be received until 2 p.m., Jan. 5, by the Passaic Valley Sewerage Commissioners for constructing the central portion of Section 18 of the main intercepting sewer. John S. Gibson is Clk. For details see advertisement under "Contracts To Be Let."

(Official)—Bids will be received by the Passaic Valley Sewerage Commissioners until 2 p.m., Dec. 29 for the construction of the central portion of Section 17 of the main intercepting sewer. John S. Gibson is Clk. For details see advertisement under "Contracts To Be Let."

Perth Amboy, N. J.—The Board of Alderman has authorized the construction of a new sewer in Amboy Ave. Wilbur La Roe is City Clk.

★Allentown, Penn.—(Official)—Bids will be received until 9:30 a.m., Dec. 15, by Charles W. Rinn, Mayor, for constructing a storm water sewer in East Maple St. from the Lehigh River eastward. For details see advertisement under "Contracts To Be Let."

Middletown, Del.—The Town Council plans to issue bonds, the proceeds of which will be used for the construction of a sewer system and for the improvement of the streets.

Deland, Fla.—See item under "Streets and Roads."

Bay Minette, Ala.—(Official)—Bids will be received until 8:15 p.m., Dec. 15, by W. D. Stapleton, Mayor and the Council, for constructing a sewer system. Noted Sept. 24.

New Orleans, La.—See item under "Water Supply and Sewers."

East Cleveland, Ohio—(Official)—Bids will be received until Dec. 10, for constructing brick sewers. The estimated cost is $150,000. C. W. Courtney, 1150 Leader Bldg., Cleveland, is City Engr.

Fostoria, Ohio—(Official)—Bids will be received by E. K. Cunningham, Dir. Pub. Ser., until noon, Dec. 5, for improving the sewage disposal plant.

✝Howenstine (North Industry post office), **Ohio**—A contract for constructing six miles of sewer to the new sewage disposal plant has been awarded to JOHN F. CASEY, Pittsburgh, Penn., at $169,000.

✝East Chicago, Ind.—The contract for constructing sewers in Michigan and Parish Ave. has been awarded to THOMAS TAVENE, Hammond, $9239.

Indianapolis, Ind.—The Board of Public Works contemplates constructing a sewer in Prospect St. from Pleasant Run to Sherman Drive. The estimated cost is $22,000.

✝Detroit, Mich.—The contract for constructing a sewer in Dexter Blvd. has been awarded to J. A. MERCIER at $12,965.

Averyville (Peoria post office), **Ill.**—(Official)—The Peoria Water Works Co. has prepared plans for a sewer system for the village of Averyville. The company proposes to lay the pipes to insure tight joints for the protection of its water supply. R. Crozier is Res. Engr.

Lockport, Ill.—Plans are being prepared by A. S. Calkins, Asst. City Engr. of Joliet, for constructing 8½ miles of 8 to 30-in. pipe sewers. The estimated cost is $76,000.

St. Charles, Ill.—Bids will be received by the Board of Local Improvements until 7 p.m., Dec. 7, for constructing a sewer in East Fifth St.

✝Ames, Iowa—A contract for constructing an extension of the storm sewer outlet and sewage disposal plant has been awarded to the BLACK HAWK CONSTRUCTION CO., Waterloo, $9308.

Afton, Okla.—The Benham Engineering Co., Oklahoma City, Okla., Consult. Engr., has been retained to prepare plans for the construction of a sewer system and a sewage disposal plant at Afton, Okla. The estimated cost is $30,000.

Tempe, Ariz.—The contract will soon be awarded for the construction of a municipal sewer system to cost $25,500.

Marshfield, Ore.—Plans are being prepared by D. L. Buckingham, City Engr. for constructing a trunk sewer which will drain 800 acres of land.

Tacoma, Wash.—Bids will soon be received by Owen Wood, Comr. of Pub. Wks. for constructing a storm sewer extending through the Sixth Addition from South 40th St. and Ainsworth Ave. to M. St. at Gallagher's Gulch. The estimated cost is $9500.

✝Richmond, Calif.—The City Council has awarded a contract for sewer work in the residential section to CHAMBERS & HEAFY, San Francisco, Calif., at $71,536.

Santa Monica, Calif.—The City Council contemplates constructing a system of storm sewers to cost $225,000. John A. Morton is City Engr.

Mimico, Ont.—See item under "Water Supply and Irrigation."

Niagara Falls, Ont.—The City Council has retained J. C. Gardner to prepare plans for the Muddy Run sewer system.

Toronto, Ont.—Bids will soon be received by the York Township Council for constructing new sewers in Glenholme and Earnscliffe Ave. The estimated cost is $20,000. F. Barber, 57 Adelaide St., Toronto, is Engr.

Bids will be received by H. C. Hocken, Chn. Bd. of Control, until noon, Dec. 8, for constructing sewers in several streets.

(Official)—Bids will be received by H. C. Hocken, Ch. Bd. of Control, until noon, Dec. 22, for reconstructing a part Sect. No. 2, of the High Level Interceptor.

GARBAGE

Boston, Mass.—The following low bids were received by the Commissioner of Public Works, Nov. 16, for the removal of snow and ice for the winter season 1914-15: District 1, Joseph M. Kiley, 35c.; District 2, Joseph McGreevy, 34c. Districts 3 and 4, C. J. Jacobs Co., 34c.; District 5, Coleman Bros., 39c.; District 6, J. C. Coleman & Sons Co., 34c. Noted Nov. 12.

Akron, Ohio—(Official)—The proposed waste reduction plant has been voted down by the City Council. Noted Nov. 12.

Kalamazoo, Mich.—Local financiers have subscribed $50,000, and a company will be incorporated to undertake the collection and disposal of garbage in Kalamazoo. The disposal plan includes the purchase of a 500-acre tract of land for the establishment of a piggery. C. D. Wolcott, Grand Rapids, is interested.

Rock Island, Ill.—According to press reports the City Council contemplates the installation of a garbage incinerator.

Muscatine, Iowa—The City Board of Health is considering plans for a garbage disposal plant. Charles Young, City Engr., is preparing a report on collection and disposal conditions.

Salt Lake City, Utah—The City Commission has received a communication from S. Q. Cannon, City Engr., recommending the installation of a garbage incinerator, to cost about $22,000.

San Francisco, Calif.—(Official)—The Board of Public Works passed a resolution, on Nov. 27, rejecting the Isalias Creek incinerator and requesting that the Power Specialty Co. remove the plant and return all money paid to date.

Berlin, Ont.—The City Council will submit a by-law to the rate-payers at the New Year's election, calling for a bond issue of $14,000 for erecting an incinerator and other improvements.

STREETS AND ROADS

Boston, Mass.—Bids will be received until Dec. 4, by the Public Works Department, for constructing a roadway in Westmoreland and Dorchester. L. K. Rourke is Comn.

✝Buffalo, N. Y.—The contract for paving Harrison St. with brick has been awarded to the CONSTANTINE CONSTRUCTION CO., Buffalo, N. Y., at $10,800.

✝New York, N. Y.—(Borough of Manhattan)—(Official)—Contracts have been awarded for repaving Ave D, from Fifth to Eighth St., to the AZTEC ASPHALT CO., $20,614, Washington Pl., from Broadway to Washington Sq., to M. J. FITZGERALD, $8036, and 191st St., from Audubon to Wadsworth Ave., to the UVALDE ASPHALT CO., $5303. Noted Nov. 5 and 19.

(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Pres., Borough of Manhattan, Municipal Bldg., until 2 p.m., Dec. 7, for improving 30th St., from Eighth to Tenth Ave.

(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Pres. of the Borough, until 11 a.m., Dec. 10, for improving Liberty Ave., from Walker to Ocean Ave., Rockaway Turnpike, from New York Ave. to Hook Creek, and Hancock St., from Payntar to Freeman Ave.

(Borough of Richmond)—(Official)—Bids will be received by Charles J. McCormack, Pres. of the Borough, until noon, Dec. 8, for improving St. Mary's Ave., from New York to Tompkins Ave., Third St., from Lafayette Ave. to its easterly terminus.

Watertown, N. Y.—Bonds for $200,000 have been sold, the proceeds of which will be used for highway improvements.

★✝Camden, N. J.—Bids were received, Nov. 11, by the County Road Committee for constructing roads as follows:

Sharp's Corner Rd., Haddonfield, W. T. GIBBS, Clemonton, $13,931 (awarded contract), James Magowan, Haddon Heights, $14,065, J. F. Shanley Co., Newark, N. J., $15,156, Paul J. Snyder & Co., $15,373.

Cresson Rd., JAMES MAGOWAN, Haddon Heights, $15,911 (awarded contract), J. L. Le Compt, Lakewood, $22,085, Slack & Slack Co., $22,720 and State Highway Construction Co., Beacon, N. Y., $23,811.

Main St., Haddonfield, KELLEY McFEELEY CO., Camden, $45,833 (awarded contract), B. G. Coon Construction Co., $47,657, E. C. Humphrey, $48,461 and Paul J. Snyder, Bailey Bldg., Philadelphia, Penn., $48,772. Noted Oct. 29 and Nov. 26.

Deal, N. J.—(Official)—Bids will be received by Henry D. Harris, Borough Clk., until 3 p.m., Dec. 5, for improving Ocean Ave. from the north boundary line of Allenhurst to the south line of Long Branch with vitrified brick or wood block pavement.

East Orange, N. J.—The City Council, Nov. 23, directed W. D. Willigerod, City Engr., to prepare plans for laying a concrete sidewalk on the east side of Whittier St., from Edgar to Clifford St. Bids will soon be asked. L. E. Rowley is City Clk.

East Orange, N. J.—The City Council has passed an ordinance providing for the improvement of Clay St., from Harrison St. to the Orange line, with telford or similar pavement. Lincoln E. Rowley is City Clk.

Jersey City, N. J.—All bids received by the Board of Freeholders, Nov. 12, for the sale of $150,000 in bonds for repairing the Hudson County Blvd. were rejected.

Jersey City, N. J.—Bids will soon be received by the City Commission for repaving Gautier and Belvidere Ave.

Paterson, N. J.—The Board of Freeholders plans the improvement of the following Passaic County roads: Midvale-Greenwood Lake Rd., High Mountain Rd., Little Falls Turnpike, the Paterson-Hamburg Rd., the Wessel Rd., and Main St., Little Falls. The work is estimated to cost about $25,000.

West Hoboken, N. J.—The City Council is considering the improvement of Palisade Ave., with asphalt or bituminous paving.

+Harrisburg, Penn.—Bids were received, Nov. 24, by the State Highway Commissioner for constructing 20,158 lin.ft. of brick block pavement in Butler, Summit, and Jefferson Townships, Butler County as follows: O'BRIEN BROS., Avoca, $85,-702 (awarded contract), Rinehart Bros., East Liverpool, Ohio, $86,104; South Shore Construction Co., Erie, $87,426, R. H. Cunningham & Sons, Turtle Creek, $88,388, Duquesne Contracting Co., Pittsburgh, $92,959 and Pietro Paving & Construction Co., Morgantown, W. Va., $94,770. Noted Nov. 12.

+Sharon, Penn.—A contract for constructing a two-mile macadam road in Brookfield Township has been awarded to WILLIAM McINTYRE & SONS, at $11,000.

Cumberland, Md.—Bonds for $150,000 were sold Nov. 20, the proceeds of which will be used for paving.

Spencer, W. Va.—Bids will be received by A. B. Gainer, Mayor, until noon, Dec. 11, for paving a section of Market St.

Clinton, N. C.—Bids will be received by the County Commissioners until, Dec. 14, for the sale of $25,000 in bonds for constructing roads.

Deland, Fla.—An election will be held, Jan. 13, to vote on the question of issuing $45,000 in bonds for paving the business streets and for constructing a storm water sewerage system.

Vernon, Ala.—An election will be held, Dec. 21, to vote on the question of issuing $75,000 in bonds for constructing roads. R. L. Bradley is Probate Judge.

Armory, Miss.—Bids will be received until Dec. 9, for improving several streets. The estimated cost is $25,000. G. E. Hauser, Aberdeen, is Engr.-in-Charge.

Thibodaux, La.—At an election held Nov. 17, the people of La Fourche Parish voted in favor of issuing $100,000 in bonds for improvements in Road District No. 1.

Columbus, Ohio—Bids will be received by George A. Borden, Dir. of Pub. Ser., until noon, Dec. 8, for improving Garfield, Miller, Sixth Ave., High, Hoster, Wall, Seventh St. and Kimball Pl.

Bids will be received by the Commissioners of Franklin County until, Dec. 11, for the sale of $48,000 in bonds for road improvements. John Scott is Clk. of the Comrs.

Columbus, Ohio—(Official)—Bids will be received by G. A. Borden, Dir. Pub. Ser., until noon, Dec. 8, for improving the following streets: Garfield, Miller, Sixth Ave., Kimball Pl. Ave., High, Hoster and Wall St. Paul B. Kemper is Clk. of Bd. Pub. Ser.

Kenton, Ohio—The City Council and County Commissioners will pave the public square with asphalt over the brick pavement. The estimated cost is $10,000.

Lima, Ohio—(Official)—Bids will be received by the Commissioners of Allen County until noon, Dec. 8, for constructing 22,000 sq.yd. of concrete roadway, from ½ mile west of Landeck on the Van Wirt County line and extending two miles eastward.

Frankfort, Ind.—(Official)—Bids will be received by the Board of Commissioners of Clinton County, until 2 p.m., Dec. 14, for improving several roads.

Hartford City, Ind.—Bonds for $60,000, $39,000 and $18,600 have been sold, the proceeds of which will be used to improve Monroe, Franklin and Frank St., respectively.

Lebanon, Ind.—(Official)—Bids will be received until 10 a.m., Dec. 7, by J. T. Frank Laughner, Treas., Boone County, for the sale of $57,600 in bonds for highway improvements.

Martinsville, Ind.—(Official)—Bids will be received until noon, Dec. 10, for the sale of $10,740 and $6600 in bonds for highway improvements.

Michigan City, Ind.—(Official)—Bids will be received by the Board of Public Works, until 11 a.m., Dec. 8, for improving Fir and East Eighth St. A. Spychalski is City Clk.

St. Joseph, Mich.—According to press reports, bids will be received by the County Clerk, until, Dec. 9, for constructing 32 miles of macadam. W. J. Cleary is County Highway Engr.

La Crosse, Wis.—Plans are being prepared by G. P. Brodish, City Engr., for macadamizing 17 blocks of West Ave. and 16th St. and paving three blocks of Fifth St. with brick.

+Grand Rapids, Minn.—A contract for constructing 25 miles of the Ardenhurst-Moose Park Rd. has been awarded to P. McDONNELL, Duluth, at $32,000.

St. Paul, Minn.—The City Council contemplates issuing $100,000 in bonds for public improvements. Included among these improvements is the paving of Jackson St., at an estimated cost of $65,000.

+Grand Island, Neb.—A contract for paving 8311 yd. has been awarded to the E. D. TYNER CONSTRUCTION CO., Kansas City, Mo. Noted Oct. 15.

+Kansas City, Mo.—Contracts have been awarded for paving Holmes St., from 22d to 23d St., with asphalt, to the CLEVELAND TRINIDAD PAVING CO., at $18,133, and Main St., from Ninth to 12th St., to A. JAICKS & CO., at $14,502.

Anderson, Tex.—The Richards Road District has retained Browne & Wilder, Engrs., Houston, Tex., to prepare plans for a system of gravel roads.

Bryan, Tex.—According to press reports, an election will soon be held to vote on the question of issuing $600,000 in bonds for road construction and improvements.

Corsicana, Tex.—Bids will be received by N. D. Johnson, County Audr., until 10.30 a.m., Dec. 10, for the sale of $75,000 in bonds for improvements in Road District No. 3.

+Temple, Tex.—The City Council has awarded the contract for the paving of about eight miles of streets to the LEVY & LEVY CO., Muskogee, Okla., and H. K. McCULLOM, Fort Worth. The cost will be about $280,000.

+Velasco, Tex.—A contract for constructing about 15 miles of hard surfaced gravel roads has been awarded to the OWENS CONSTRUCTION CO.

Port Orchard, Wash.—Bids will be received by the County Auditor until Dec. 7, for improving ten miles of road.

Prosser, Wash.—According to press reports bids will be received by the County Commissioners until Dec. 8, for improving Benton County Permanent Highway No. 4 (Kennewick Finley Rd.)

Portland, Ore.—Bids were received by the City Council for laying sidewalks on the east side as follows: Star Stand Co., $7871; Cochran-Nutting & Co., $8511; George Gundlach, $8343; O. M. Patton, $7996; Manning & Co., $8293; Gilbisch-Joplin Co., $8099.

Roseburg, Ore.—According to press reports bids will be received until Dec. 15, for constructing 11,000 ft. of road.

+Dunlap, Calif.—The Board of Supervisors of Fresno County has awarded a contract for the construction of the Dunlap cut-off to C. M. BAKER, at about $5000.

+East San Diego, Calif.—The contract for improving University Ave. has been awarded to the MORSE CONSTRUCTION CO., at $7592.

+Glendora, Calif.—WILLIAM G. WAGNER, Monrovia, Calif., has been awarded the contract at $5336 for improving Meda Ave.

+Los Angeles, Calif.—The contract for improving Palmer Ave. has been awarded to FRED HOFFMAN.

Monrovia, Calif.—At a recent election the citizens voted in favor of issuing $15,000 in bonds for improving streets.

Sacramento, Calif.—(Official)—Bids will be received by the State Highway Commission, 515 Forum Bldg., until 2 p.m., Dec. 14, for the following road construction: Siskiyou County, from Hornbrook to Yreka, Sutter County from Yuba City to the northerly boundary. Los Angeles County from Section 17 to Liebre Mountain; Orange County from San Juan Capistrano to Galivan.

San Dimas, Calif.—The city contemplates macadamizing about ¾ mile of Cataract and Fifth St.

Quebec, Que.—Plans have been prepared by W. D. Baillarge, City Hall, Quebec, for paving St. Louis and St. Foye Rd. The estimated cost is $180,000.

Waterloo, Que.—Bids will be received some time in January by the Town Council for macadamizing about three miles of roads. The estimated cost is $27,000.

Kerrisdale, B. C.—Bids will be received by the City Council, until Dec. 7, for paving University Ave.

+Victoria, B. C.—A contract for laying 12,000 yd. of asphalt pavement has been awarded by the City Council to the CANADIAN MINERAL RUBBER CO., Victoria, at $1.05 per yd.

INDUSTRIAL WORKS

Boston, Mass.—McFarland & Colby, Archs., 46 Cornhill St., are preparing plans for the construction of the bakery for the Grocers Baking Co.

Clinton, Mass.—Plans are being prepared for an addition to the plant of the Clinton Wire Cloth Co.

+Hyannis, Mass.—The contract for the construction of a cold storage plant on the Cobb & Smith wharf has been awarded to J. W. BISHOP CO., Worcester, Mass.

Millbury, Mass.—The Metropolitan Ice Co. will construct an addition to its plant at Dorothy Pond, to cost $25,000.

+Providence, R. I.—The contract for the construction of the five-story brick and reinforced-concrete warehouse at Fountain, Clements and Worcester St., for N. Leroy Gardner, has been awarded to the TURNER CONSTRUCTION CO., New York.

+Groton, Conn.—The contract for the construction of a building for the New London Ship & Engine Co. has been awarded to H. R. DOUGLAS, INC.; steel work to the BERLIN CONSTRUCTION CO.

+New Haven, Conn.—The contract for the construction of a building at the plant of the Winchester Repeating Arms Co. has been awarded to the ABERTHAW CONSTRUCTION CO., 8 Beacon St., Boston, Mass. Noted Aug. 6.

+Stamford, Conn.—The general contract for the construction of the three-story warehouse on Jefferson St., for S. J. Slawson, has been awarded to the VUONA CONSTRUCTION CO., Bank Bldg., Providence, R. I.

+Buffalo, N. Y.—The contract for the construction of a four-story factory at West Mohawk St. and South Elmwood Ave., for the Robertson Cataract Electric Construction Co., has been awarded to the TURNER CONSTRUCTION CO., 311 Prudential Bldg., Buffalo.

+Ilion, N. Y.—The general contract for the construction of the buildings for the Remington Arms Co. has been awarded to JAMES STEWART & CO., 30 Church St. The estimated cost is $500,000. Noted July 30.

+New York, N. Y.—(Borough of Queens)—The steel contract for the two-story addition to the refinery of the National Sugar Refining Co., has been awarded to POST & McCORD, 101 Park Ave., New York. The general contract has been awarded to LEDDY & MOORE, 105 W. 40th St., New York.

Niagara Falls, N. Y.—A. M. Boff & Son, 1009 Garden Ave., manufacturers of metals, will construct an addition to their factory.

The Niagara Falls Linen Co. is having plans prepared by Walter McCulloh, Engr., Gluck Bldg., for an addition to its plant. The estimated cost is $200,000.

Rochester, N. Y.—Walker, Livingston & Brackett, Archs., E. & B. Bldg., have prepared plans for the construction of a five-story warehouse on Exchange Ave., for George C. Buell & Co. The estimated cost is $75,000.

Wildwood, N. J.—The Board of Trade of Wildwood plans to construct a factory in the western section of the town.

+Jeannette, Penn.—The contract for the construction of the warehouse for the American Window Glass Co. has been awarded to the BOLLINGER ANDREWS CONSTRUCTION CO.

Philadelphia, Penn.—The Roesch Packing Co. is having plans prepared for a four-story addition to its plant at Second and Poplar St.

Philadelphia, Penn.—Charles W. Denny, Arch., is preparing plans for the construction of a two-story, 75x100-ft. warehouse, to be built for Charles Devlin. The estimated cost is $20,000.

Asheville, N. C.—Plans are being prepared by Lockwood, Greene & Co., Boston, Mass., and Atlanta, Ga., for the construction of a two-story, 104x170-ft. factory and a 100x100-ft. warehouse for the French Broad Mfg. Co.

✚**Birmingham, Ala.**—The contract for the construction of a plant on 19th St. for the Birmingham Publishing Co., has been awarded to CARROLL BLAKE.

Louisville, Ky.—Plans have been completed for the addition to the plant of the Alfred Struck Co. The estimated cost is $100,000.

Sebree, Ky.—The Eastwood Ferry Brick & Tile Co. contemplates constructing a brick and tile plant at Sebree. The estimated cost is $10,000.

Cleveland, Ohio—The Cleveland Builders' Supply Co., Leader News Bldg., has purchased a site at East 131st St. and St. Clair Ave., for the construction of a warehouse. Work will start in the spring.

Toledo, Ohio—The Willys-Overland Co. plans the construction of two additions to its plant. One will be two stories and basement 1000x200 ft., and the other 200x200 ft.

✚**Fort Wayne, Ind.**—The contract for the construction of a 60x150-ft. addition, on Wall St., for the Dudlo Mfg. Co., has been awarded to BUESCHING & HAGERMANN. Estimated cost, $10,000.

Tell City, Ind.—The Tell City Furniture Co. plans the construction of a four-story, 40x100-ft. brick addition to its plant.

Ecorse, Mich.—The Kay Salt Co. plans the construction of an addition near West Jefferson Ave. and Ecorse River. Estimated cost, $50,000.

Chicago, Ill.—The Ahrens & Ott Co., Louisville, Ky., has purchased a site at North Peoria St., between Madison and Washington St., for the construction of a $150,000 warehouse.

Peoria, Ill.—Plans are being prepared by Reeves & Baillie for the construction of a warehouse at Oak and Adams St. for the Federal Warehouse Co., recently incorporated.

✚**Cornell, Wis.**—The contract for the construction of a warehouse for the Cornell Wood Products Co., has been awarded to SLEGER-FLYNN CO., 303 Jackson St., St. Paul, Minn. Alban & Lockhart, Endicott Bldg., St. Paul Minn., are Archs.

✚**Marshfield, Wis.**—The contract for the construction of a four-story, 50x50-ft. brick refrigeration plant for C. E. Blodgett, has been awarded to the WEINBERG CONSTRUCTION CO. L. T. Liebert, Wausau, is Arch.

✚**Milwaukee, Wis.**—The contract for the construction of a two-story 39x120-ft. laundry at Sixth and Clark St. for Benjamin Edelman, has been awarded to D. ROTHMAN. Estimated cost, $10,000. Noted Sept. 24.

✚Bids are being received by the Cudahy Bros. Packing Co. for the construction of a two-story and basement 70x90-ft. storage and sales building. Estimated cost, $25,000. The contract for the concrete foundation has been awarded to WILLIAM F. TUBESING. Noted Nov. 19.

Superior, Wis.—The Superior Box Factory Co. will construct a $30,000 factory at South Superior.

Minnesota—The Pittsburg Steel Co., Frick Bldg., Pittsburgh, Penn., plans the construction of a $1,000,000 ore concentrating plant near the shore of Rapid Lake, Crow Wing County, Minn. J. H. Williams is representative of the company.

St. Paul Minn.—The State Railroad Commission contemplates constructing a central warehouse at the Minnesota Transfer for hay inspection.

F. S. Dusenberg, of Dusenberg Bros., plans the construction of a motor and machine plant at 2654 University Ave., St. Paul.

Wright, Barrett & Stillwell plans the construction of a one-story addition at University near Hampden St. The estimated cost is $12,000.

Gainesville, Tex.—Plans have been prepared for the construction of an oil refinery, at Gainesville. J. C. Whaley, Gainesville, is interested.

Spur, Tex.—S. M. Swenson & Sons, 61 Broadway, New York, N. Y., contemplate constructing warehouses having a capacity of 100,000 bales of cotton.

Portland, Ore.—E. A. Finkbeiner, 1077 East Davis St., plans the construction of a plant at East Seventh and Center St., for the manufacture of oxygen and hydrogen. Estimated cost, $15,000.

Emeryville, Calif.—The Paper Products Co. plans to rebuild its plant at Emeryville, which was recently destroyed by fire. Estimated cost, $10,000.

Fresno, Calif.—The Valley Ice Co. plans to enlarge its plants at Fresno and Bakersfield. Estimated cost, $15,000. J. R. Erskine, Fresno, is Mgr. and W. E. Keller Los Angeles, Pres.

San Pedro, Calif.—The Board of Harbor Commissioners is preparing plans for the construction of a six-story, 152x480-ft. reinforced concrete municipal warehouse at the Huntington Fill. The estimated cost is $286,000.

✚**Calgary, Alta.**—The general contract for the construction of form warehouses for the Western Canada Cordage Co. has been awarded to THOMAS-JAMIESON & McKENZIE, 307 Judge Travis Bldg. Charles Hay, 202 Oddfellows Bldg., is Arch.

FEDERAL GOVERNMENT WORK

★**Dredging**—Portland, Maine—The following bids were received for dredging in Portland Harbor: Maritime Dredging Co., New York, N. Y., 17⅞c. per cu.yd.; J. P. O'Riorden, Charlestown, Mass., 16¼c.; Morris & Cumings Dredging Co., New York, N. Y., 13.39c.; Bay State Dredging Co., Ltd., Boston, Mass., 14.99c.; J. S. Packard Dredging Co., Providence, R. I., 15.4c.; Eugene Breymann, East Boston, Mass., 14.5c.; John H. Gerrish, Boston, Mass., 13.62c.; Eastern Dredging Co., East Boston, Mass., 11.88c.; John A. Seely, New York, N. Y., 21c.; Coastwise Dredging Co., Norfolk, Va., 14c.; Charles M. Cole, Fall River, Mass., 15c. Noted Oct. 29.

✚**Shipbuilding Cranes**—Boston, Mass.—The contract for furnishing and installing shipbuilding cranes at the Boston and Philadelphia Navy Yards has been awarded by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to the McMYLER-INTERSTATE CO., Bedford, Ohio, at $87,245. Noted Nov. 5 and Nov. 12.

Dredging—Salem, Mass.—Bids will be received by Lieut. Col. W. E. Craighill, U. S. Engineer office, Boston, Mass., until noon, Dec. 30, for dredging in Salem Harbor.

Dredging, Etc.—Newport, R. I.—The following are the bids received for dredging and rock removal in Newport Harbor: Eastern Dredging Co., Boston, Mass., $84,790; G. N. Harries, 88 Broad St., Boston, Mass., $114,251; Charles W. Johnston, Lewes, Del., $107,784; P. Sanford Ross., Inc., Jersey City, N. J., $77,604; Coastwise Dredging Co., Norfolk, Va., $55,903; John H. Gerrish, Boston, Mass., $65,101; Timothy J. Dady, New York, N. Y., $213,268; R. G. Packard Co., Bayonne, N. J., $56,478; J. S. Packard Dredging Co., Providence, R. I., $84,790. Noted Oct. 29.

★**Purchasing Steamer**—Newport, R. I.—(Official)—Bids will be received at the U. S. Engineer office, Newport, until 11 a.m., Jan. 2, 1915, for purchasing the steamer "Cora." For further information consult "Contracts To Be Let."

★**Repairs to Breakwater**—Stonington, Conn.—Bids will be received by Maj. G. B. Pillsbury, U. S. Engineer office, New London, Conn., until 2 p.m., Jan. 15, for repairing breakwaters in Stonington Harbor.

Pier—New York, N. Y.—(Borough of Brooklyn)—Bids will be received by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., for building a timber and reinforced-concrete pier at the United States Navy Yard, New York, N. Y.

★**Dredging**—New Jersey—Bids will be received by Col. Frederick V. Abbot, Army, Bldg., Whitehall St., New York, N. Y., until noon, Dec. 8, for dredging in Passaic River, N. J.

✚**Post Office**—Carnegie, Penn.—The contract for constructing the U. S. post office at Carnegie has been awarded to the E. T. ABBOT CONSTRUCTION CO., 1133 Broadway, New York, N. Y. Noted Sept. 24 and Nov. 5.

✚**Shipbuilding Cranes**—Philadelphia, Penn.—See item under Boston, Mass.

★**Machinery**—Anacostia, D. C.—Bids will be received by the Secretary of the Interior, Washington, D. C., until 2 p.m., Dec. 15, for furnishing machinery and apparatus required in remodeling the pumping plant of the Government Hospital for the Insane.

✚**Building**—Washington, D. C.—The contract has been awarded by the Commissioners of the District of Columbia for reconstructing the Western High School to RICHARDSON & BURGESS, Washington, D. C., at $48,877. Noted Nov. 5.

✚**Building**—Washington, D. C.—The contract for the construction of a foundation for a new high school at First and N St., Washington, has been awarded to P. F. GORMLEY CO., Washington, D. C., at $55,557. Noted Nov. 12 and Nov. 28.

✚**Grading**—Washington, D. C.—The contract for new roads and grading ground at the Hygienic Laboratory, Washington, D. C., has been awarded to CHARLES H. TOMPKINS, Washington, D. C., at $7800. Noted Nov. 19.

Repair Shops—Washington, D. C.—Bids will be received until 2 p.m., Dec. 16, by the Commissioners, District of Columbia, for constructing repair shops for the Water Department.

★**Excavating**—Wilmington, Del.—The lowest bid received by Maj. E. N. Johnston, U. S. Engineer office, Wilmington, Nov. 23, for excavating Inland Waterway between Rehoboth Bay and Delaware Bay, Lewes Canal, Del., was that of the Southern Dredging Co., Mobile, Ala., at 13.9c. per cu.yd. Noted Nov. 5.

★**Jetty Work**—St. Petersburg, Fla.—Bids will be received by Maj. W. B. Ladue, U. S. Engineer Office, Jacksonville, Fla., until noon, Dec. 30, for building stone jetty at entrance to St. Petersburg Harbor

✚**Post Office**—Jellico, Tenn.—The contract for the construction of the post office at Jellico has been awarded to VOLNEY E. TAYLOR, Huntington, W. Va. Noted Sept. 10 and Oct. 22.

✚**Post Office**—Shelbyville, Tenn.—The contract for the construction of a post office at Shelbyville has been awarded to J. L. CROUSE, Greensboro, N. C., at $54,103. Noted Nov. 5.

✚**Repairs to Post Office**—Springfield, Ohio—The contract for repairs at the U. S. post office, Springfield, Ohio, has been awarded to GROHNE CONTRACTING CO., Joliet, Ill., at $6370.

★**Post Office**—Gary, Ind.—Bids will be received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 15, for constructing a post office at Gary. The building will be two stories and basement. For particulars see advertisement under "Contracts To Be Let."

Improving Post Office and Court House—Detroit, Mich.—The following bids were received by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, for the construction of an extension to and remodeling the U. S. post office and court house, Detroit: Schmide-Sisman Co., Detroit, Mich., $50,728; Conners Bros. Co., New York, N. Y., $57,530; F. H. Goddard, Detroit, Mich., $54,664; Hiram Lloyd Building & Construction Co., St. Louis, Mo., $43,910. Noted Oct. 22.

✚★**Dredging**—Chicago, Ill.—The contract for dredging in the Chicago River has been awarded to the GREAT LAKES DREDGE & DOCK CO., Chicago, Ill., at $29,942.

✚**Post Office**—Collinsville, Ill.—The contract for the construction of the U. S. post office at Collinsville has been awarded to WILLIAM O'NEIL & SON CO., Faribault, Minn., at $54,143. Noted Sept. 24 and Nov. 12.

Post Office—Sparta, Wis.—Bids were received as follows by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at Sparta: (a) Limestone, (b) sandstone: R. S. Moore, Lafayette, Ind., (a) $47,620; (b) $49,896; George W. Stiles Construction Co., Chicago, Ill., (a) $46,740; (b) $48,240; James Devault, Canton, Ohio, (a) $45,,586; (b) $46,386; Hodgin Construction Co., St. Paul, Minn.,

(a) $50,000; (b) $50,000; McManus & Tarnoski, St. Paul, Minn., (a) $46,124; (b) $48,383; General Construction Co., Milwaukee, Wis., (a) $46,131; (b) $47,831. Noted Oct. 29.

✚Repairs to Post Office—Jefferson, Tex.—The contract for repairs to the U. S. post office, Jefferson, has been awarded to MOOS & RODGERS, Marshall, Tex., at $5490.

Post Office—El Reno, Okla.—Bids were received as follows by Oscar Wenderoth, Superv. Arch., Treasury Dept., Washington, D. C., for the construction of a post office at El Reno, (a) limestone, (b) sandstone, (c) marble: Hiram Lloyd Building & Construction Co., St. Louis, Mo., (a) $70,413, (b) $70,913, (c) $83,413; Schafer & Kreipke, El Reno, Okla., (a) $66,784, (b) same, (c) $71,944; Dieter & Wenzel Construction Co., St. Louis, Mo., (a) $76,666, (c) $85,666; M. Yeager & Co., Danville, Ill., (a) $69,869, (b) $73,369, (c) $83,800; George A. Shaul, Seneca, Kan., (a) $69,289, (c) $83,824; J. L. Crouse, Greeensboro, N. C., (a) $66,970, (b) $67,570, (c) $79,192; Nandenberg & Pauley, Wichita, Kan., (a) $75,207, (b) $75,557, (c) $86,211; George W. Stiles Construction Co., Chicago, Ill., (a) $63,876, (c) $80,120; J. H. Wiese, South Omaha, Neb., (a) $74,900, (b) $88,900; Latimer & Benning, Kansas City, Mo., (a) $74,953, (c) $89,453; W. D. Lovell, Minneapolis, Minn., (a) $87,400, (b) $100,400. Noted Oct. 22.

★Bridge—Tuba, Ariz.—Bids will be received by the Commissioner of Indian Affairs, Washington, D. C., until 2 p.m., Dec. 22, for constructing a steel highway bridge across the Moencopi Wash near Tuba. Plans and specifications are on file at the office of "Engineering News," Tenth Ave at 36th St. For further information see advertisement under "Contracts To Be Let."

Cranes—Pearl Harbor, H. T.—Bids will be received by H. R. Stanford, Chief, Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Dec. 12, for furnishing three electric traveling shop cranes at the naval station, Pearl Harbor, Hawaii.

Miscellaneous Supplies—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 10:30 a.m., Dec. 14, for furnishing, by steamer, free of all charges, on dock at either Colon, Atlantic port, or Port of Ancon, Balboa, Canal Zone, Pacific Port, Isthmus of Panama, steel rolling doors, wire cables and attachments, galvanized sheet steel, rivets, bolts, washers, cable clips, turnbuckles, bronze bars, carpenter's squares, metallic tapes, manila rope, leather belting, flax packing, sandpaper, chamois skins, ship's felt, window glass, lye, metal polish, soap, lard oil, linseed oil, Japan drier, varnish, lampblack, engine-truck paint, chrome yellow, bristol board, paper and scrub brushes.

Miscellaneous Supplies—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., until 10:30 a.m., Dec. 7, for furnishing structural steel, soft-steel bars, steel angles and plates, checkered steel plates, bronze bushings, steel castings, iron castings, steel forgings, steel cable, boiler tubes, pipe fittings, brass clean-outs, brass bibbs, sheet copper, copper bars, brass grommets, wheelbarrows, corn brooms, life preservers, grindstones and yellow pine lumber. These supplies are to be delivered, free of all charges, on dock at either Colon, Atlantic port, or Port of Ancon, Balboa, Canal Zone, Pacific port, Isthmus of Panama.

Fuel Oil—Panama—Bids were received as follows on Nov. 23, by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal Comn., Washington, D. C., for furnishing 600,000 bbl. of fuel oil during the year 1915, under item (1), 450,000 bbl. delivered at Balboa, and item (2), 150,000 bbl. delivered at Cristobal: Anglo-Mexican Petroleum Products Co., 32 Broadway, New York, N. Y., bid A, in lots of 38,000-40,000 bbl., (1) $1.03, (2) 88c.; in lots of 58,000-60,000 bbl., (1) 98c., (2) 83c.; bid B, in lots of 38,000-40,000 bbl., (1) 88c., (2) 73c.; in lots of 58,000-60,000 bbl., (1) 83c., (2) 68c.; bid C, in lots of 38,000-40,000 bbl., (1) 98c., (2) 83c.; in lots of 58,000-60,000 bbl., (1) 93c., (2) 78c.; Associated Oil Co., San Francisco, Calif., (1) $1; Huasteca Petroleum Co., 32 Broadway, New York, N. Y., (2) 90c.; National Petroleum Co., Richmond, Va., (1) 91c., (2) 79c., or will deliver entire quantity at Cristobal at 79c.; Pierce Oil Co., St. Louis, Mo., (2) $1.20; Standard Oil Co., San Francisco, in lots of 30,000 bbl., (1) $1.03, (2) $1.25; in lots of 60,000 bbl., (1) 92c., (2) $1.05; in lots of 100,000 bbl., (1) 88c., (2) $1.05; Sun Co., Philadelphia, (1) $1.39, (2) $1.20; Texas Co., New York, N. Y., bid A, (1) $1.06, (2) 88c.; bid B, (1) $1.29, (2) $1.12; Union Oil Co. of California, San Francisco, (1) 98c., (2) $1.10; W. R. Grace & Co., San Francisco, (1) 98c., (2) $1.10; Gulf Refining Co., Pittsburgh, Penn., (1) $1.35, (2) $1.05. Noted Nov. 5.

MISCELLANEOUS

Motor Fire Apparatus—Boston, Mass.—James M. Curley, Mayor, has approved the recommendation of the Fire Commissioner, providing for the purchase of tractors for the three water towers. The estimated cost is $16,613.

Pier—New Bedford, Mass.—Bids will be received, until Dec. 12, by the State Harbor and Land Commissioner for the construction of a pier and a two-story steel shed at New Bedford. William I. Williams is Ch. Engr.

River Improvement—Quincy, Mass.—The City of Quincy, the Fore River Shipbuilding Co. and the State of Massachusetts plan to spend $100,000 in the improvement of Weymouth Fore River. Frank F. Crane is Comr. of Water-Front, Navigation and Waterways.

Elimination of Grade Crossings—Central Falls, R. I.—The City Council passed a resolution on Nov. 18, appropriating $350,000 to pay the city's share for the elimination of grade crossings between Central Falls and Pawtucket.

★Barge Canal Work—Albany, N. Y.—(Official)—Bids will be received by Duncan W. Peck, State Supt., Pub. Wks., until noon, Dec. 22, for the following work: Contract C-2, for the removal of buildings and clearing site at Seneca Falls, N. Y.; Terminal contract No. 13, for constructing a guard-lock, highway bridge and cut-off dam at Schuylerville. For details see advertisement under "Contracts to Be Let." Engineer's estimate, $61,664.

✚Barge Canal Work—Albany, N. Y.—Duncan W. Peck, State Supt., Pub. Wks., has awarded the following contracts: Contract G, for furnishing and erecting the lock gates, lock valves and buffer beams for Locks 2, 3 and 4, needle beam for the spillway in Dam 2, superstructure for the Taintor gates at Waterloo, guard gates at Locks 3 and 4 and over the old canal at Waterloo, and all incidental work, LUPFER & REMICK, Buffalo, at $110,115. Contract J, for constructing the substructure, superstructure and approaches of a highway bridge over the Cayuga and Seneca Canal at Fourth St., Watkins, and for constructing a section of a dockwall between the west abutment and the end of the Terminal dockwall, OSWEGO CONSTRUCTION CO., INC., Fulton, N. Y., at $52,939. Terminal Contract No. 29, for the construction of a harbor, dockwall and two breakwaters on Oneida Lake at Constantia, N. Y., BARRALLY & INGERSOLL, Rochester, N. Y., at $38,733.50. Noted Nov. 19 and 26.

✚Creek Improvement—Albany, N. Y.—(Official)—Duncan W. Peck, State Supt., Pub. Wks., has awarded the contract for the improvement of Ellicott Creek, Erie County, to FRANK L. COHEN, Buffalo, at $62,829. The only other bid received was that of the Great Lakes Dock & Dredge Co., at $99,461. Noted Nov. 19.

Fire Alarm System—New York, N. Y.—(Borough of Brooklyn)—The Bureau of Repairs and Supplies has awarded the contract for extending the fire alarm telegraph system in Brooklyn to KNIGHT & DeMICIO, INC., New York, at $11,442. J. R. Keefe is Ch. of Bureau.

Storage Packet—New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received until Dec. 9 by the President of the Borough of the Bronx, Municipal Bldg., Crotona Park and 177th St., for furnishing the labor and materials required for constructing a four-bin storage pocket, automatic grab on mast and gaff, automatic railway and hopper, at Fort Schuyler Rd. and Westchester Creek, Borough of the Bronx.

★Subway Reconstruction—New York, N. Y.—(Borough of Brooklyn)—(Official)—The following are the unofficial totals of the bids received by the Public Service Commission on Dec. 1, for the reconstruction of Section No. 9-C-1 of Route No. 9, a part of the Fourth Ave. Subway in Brooklyn: Samuel Beskin, Beacon, N. Y., $134,085; Ward & Tulley, Inc., $141,762; Thomas F. Shaughnessy, $154,144; Kaufman Contracting Co., $158,109; Thomas Crimmins Contracting Co., $168,000; Snare & Triest, $172,733; Norton & Gorman, $185,830; J. F. Cogan Co., $190,000; Degnon Contracting Co., $192,389. Noted Nov. 19.

✚Steam Asphalt Rollers—New York, N. Y.—Borough of Manhattan)—(Official)—The contract for five steam asphalt rollers has been awarded by Marcus M. Marks, Borough Pres., to the KELLY-SPRINGFIELD CO. Noted Nov. 5 and 19.

Pier Extension—New York, N. Y.—(Borough of Manhattan)—(Official)—The lowest bid received by R. A. C. Smith, Comr. of Docks, for furnishing the material and labor necessary for extending Pier 43, was that of the General Contracting & Engineering Co., 29 Broadway, New York., at $21,000. Noted Nov. 19.

✚Dumping Board—New York, N. Y.—(Borough of Manhattan)—(Official)—The contract for constructing portions of a dumping board at the foot of East 72d St. has been awarded by the Commissioner of Street Cleaning to HENRY A. ASSERSON, Brooklyn, at $16,456. Other bids were: Stillman, Delehanty, Ferris Co., $16,945; Simon Russek, Inc., $17,430; George B. Spearun, $17,776; Post & McCord, $19,595; A. W. King, $19,703; Otto Metz, $19,810; J. M. Knopp, $21,593. Noted Nov. 19.

Motor Tractors—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received until Dec. 10, by the President of the Borough of Manhattan, Municipal Bldg., for six motor tractors.

★Sanitary Work—Rochester, N. Y.—(Official)—The State Hospital Commission has postponed indefinitely the sanitary work for which bids were advertised to be received on Dec. 4. The specifications are being revised.

Motor Fire Apparatus—Bristol, N. J.—Bristol Fire Co. No. 1 plans to purchase a motor-driven pumping engine.

Dock—Newark, N. J.—The city has sold $300,000 in bonds, the proceeds of which will be used for the construction of a dock in the Passaic River.

Excavation—Newark, N. J.—(Official)—Bids will be received until 4 p.m., Dec. 15, for excavating for the foundations of the McKinley School. R. D. Argue is Secy.

Bath House—Newark, N. J.—The lowest bid received by the Common Council for the construction of the East Side Bath House, was that of E. M. Waldron & Co., Newark, at $64,316. This bid was in excess of the amount available. Specifications will be revised and new bids called for. Noted Nov. 19.

Dock—Roosevelt, N. J.—The Borough Council plans to purchase suitable property and to construct a public dock. A special election has been called for Dec. 8 to secure the approval of residents.

Motor Fire Apparatus—Weehawken, N. J.—The West New York Borough Council plans to purchase a motor-driven fire truck and combined chemical engine and hose truck for its new fire department to be inaugurated early in 1915. The equipment is estimated to cost $15,000.

✚★Creek Improvement—York, Penn.—(Official)—The contract for excavating about 20,000 cu.yd. of earth for a channel in Codorus Creek has been awarded to SLACK & SLACK, Baltimore, Md., at $7870. Other bids were: Otto Paving Construction Co., $7950; Firor & Williams, $9455; Roy B. Wenner, $9890; Bruno Pizzimenti, $11,620; Whiting-Turner Construction Co., $12,020; S. W. Chiles, $13,515; R. E. Neumeyer, $14,955; T. L. Eyre, $16,893. George A. Warner is City Engr. Noted Nov. 12.

✚★Pumping Station—Charlotte, N. C.—The Lake Mattamuskeet Drainage District, Hyde County, has awarded the contract for the construction of the pumping plant for draining Lake Mattamuskeet, to T. C. THOMPSON & BROS., Charlotte, at $75,000. Noted Oct. 15.

Filling—Jacksonville, Fla.—Duval County Commissioners will receive bids until Dec. 23, for filling back of bulkhead at north end of the Ortega Bridge. J. H. Patterson is Chmn.

Drainage Bonds—Tallahassee, Fla.—The Board of Commissioners, Everglades Drainage District of Florida, will receive bids until Dec. 10, for the purchase of $1,500,000 drainage bonds. J. Stewart Lewis is Secy.

Shed Improvements—New Orleans, La.—The Board of Port Commissioners is having specifications prepared, and will soon call for bids for improvements on the Toulouse St. shed. The estimated cost is $26,000.

Trash Boxes—New Orleans, La.—Commissioner Lafaye has introduced an ordinance providing for the sale of a franchise for the installation of illuminated trash boxes at street intersections. The boxes are to be constructed of 20-gage galvanized iron with glass sides.

Stockyard Improvements—Louisville, Ky.—The Bourbon Stock Yards has awarded the contract for the construction of a 400x725-ft. cattle shed, to the BLOOME-SINEK CO., Chicago. The estimated cost is $150,000. D. X. Murphy & Bro., Louisville, are Archs.

Comfort Station—Canton, Ohio—The lowest bid received by the City Council for the construction of a comfort station in the public square, was that of E. H. Walker, at $10,380.

Recreation Building—Warrensville, Ohio—The city of Cleveland is having plans prepared for the construction of a recreation building in Warrensville. The estimated cost is $75,000. J. Milton Dyer, Cuyahoga Bldg., Cleveland, is Arch. H. R. Cooley is Dir., Pub. Welfare.

Park Improvements—Grand Rapids, Mich.—The city contemplates an expenditure of $40,000 for improvements to Reservoir Park.

Terminal and Freight Yard—Chicago, Ill.—According to press reports the Baltimore & Ohio R.R. has begun negotiations which will result in the construction of elevated freight yards and terminal buildings south of 14th St., near Western Ave. The estimated cost is said to be about $15,000,000.

★**Police Alarm System**—Rock Island, Ill.—(Official)—Bids will be received until Dec. 12, by the city for the installation of a police fire alarm system. See advertisement under "Contracts To Be Let."

Drain—Clarion, Iowa—Bids will be received until Dec. 8, by F. E. Osier, County Audr., for the construction of Drain No. 90. About 37,000 ft. of tile will be required. Bids will also be received at the same time for constructing lateral No. 2 of Drain No. 36, requiring 14,800 ft. of tile. Noted Nov. 5 and 19.

✚**Ditch**—Fort Dodge, Iowa—Contracts have been awarded for the construction of Ditch 178, to O. L. OLSON, Lanesboro, at $9307 for labor; and PLYMOUTH CLAY PRODUCTS CO., Fort Dodge, at $45,227 for tile.

★**Drainage**—Nebraska City, Neb.—(Official)—Bids will soon be received for the improvement of Drainage District No. 1, Otoe and Johnson Counties. The work includes 1,650,000 cu.yd. of earth excavation, river cleaning and small amount of levee work. Further information can be obtained from George H. Heinke, Nebraska City, who is Atty. for the District. See advertisement under "Contracts to Be Let."

Drainage—Omaha, Neb.—An issue of $300,000 in bonds has been voted and bids probably will be called for soon for the construction of about 22 miles of drainage ditches in Washington and Burt Counties. The Towl Engineering Co., Omaha, prepared the plans.

Drainage—Harrisonville, Mo.—(Official)—The Grand River Drainage District, Cass and Bates Counties, has recently been organized. The district comprises about 20,000 acres and will be drained by a 25-mile ditch. George Bird and D. K. Hall, Harrisonville, have been retained as Engrs.

Drainage—Louisiana, Mo.—The Riverside Drainage District has had plans prepared for draining 8000 acres in Pike County, north of Louisiana. The estimated cost is about $160,000. For particulars address E. I. Wilson, Secy., Mexico, Mo.

Waterway—Tacoma, Wash.—(Official)—A communication from L. A. Nicholson, Engr., for preliminary work on the proposed Hylebos Waterway, states that a hearing before the County Commissioners was held on Nov. 19. There was no opposition to the plan; and Dec. 12 was set as the day for the election to vote on the waterway and select the commissioners. Noted July 9, Oct. 8 and Nov. 19.

✚**Jetty**—Vancouver, Wash.—The Port of Vancouver Commissioners have awarded the contract for the construction of 400 ft. of jetty on the Oregon shore and 2000 ft. on the Washington, to the ELLIOTT CONTRACTING CO., Portland, Ore. The estimated cost is about $14,000. Noted Oct. 22.

✚**Marine Repairs**—Portland, Ore.—The contract for repairing the Grace liner, "Santa Catalina," has been awarded to the WILLAMETTE IRON & STEEL WORKS, at approximately $300,000.

✚**Jetties, Pile Driving and Ditches**—Blythe, Calif.—(Official)—The Trustees of the Palo Verde Joint Levee District have awarded the contract for constructing jetties, driving piles, excavating ditches and other work, to the MERCERAU BRIDGE & CONSTRUCTION CO., Los Angeles, at $23,740. Other bids were: Bisbane & Stutzer, $28,493; Mesmer & Rice, $31,615; Dutcher & Rice, $33,635. Alfred Solano is Pres. Noted Nov. 19.

✚**Embankment**—Martinez, Calif.—The Board of Supervisors has awarded a contract for the construction of an earth embankment for the Martinez-Bay Point Rd., to the DELTA DREDGING CO., at $18,000.

★**Reinforced Concrete Wharf**—Richmond, Calif.—(Official)—Bids will be received by A. C. Faris, City Clk., City Hall, Richmond, until 8 p.m., Dec. 28, for the construction of a reinforced concrete wharf on the water front at Point Richmond. For details see advertisement under "Contracts To Be Let."

River Improvement—Sacramento, Calif.—The State Engineering Department is preparing plans for improving the navigability of the Sacramento River near Crouch landing; also for rectifying the River at Collins Eddy. The estimated cost is $24,000.

Traveling Crane and Freight Handling Equipment—San Diego, Calif.—The city plans to buy a 15-ton traveling crane, also freight handling equipment to be installed on the municipal pier.

Drydock—Halifax, N. S.—Plans will soon be completed by the Dominion Government, Department of Public Works, for the construction of a 180x1150-ft. drydock. The estimated cost is $3,000,000. R. C. Desrochers, Ottawa, is Secy.

Breakwater—St. John, N. B.—The Public Works Department, Ottawa, Ont., will not undertake the breakwater extensions for which bids were asked early in October. R. C. Desrochers is Secy. Noted Sept. 3.

BUILDINGS

✚**Boston, Mass.**—(Official)—The contract for the additions to the Paine building at Harrison and Massachusetts Ave. has been awarded to M. F. McDONALD & SON, 98 Granite St., Boston, Mass. Noted Nov. 19.
Plans are being prepared by M. M. Kalman, Arch., for the six-story building to be constructed at 216 Hanover St., for D. De Stafano.

Brockton, Mass.—The Damocles Lodge of the Knights of Pythias will construct a temple at Brockton. The estimated cost is $60,000.

Concord, Mass.—The following bids were received by the Armory Commissioner for the construction of the armory at Concord: Flynt Construction Co., Boston, Mass., $41,997; T. P. Hurley, Marlboro, Mass., $42,747; Whiton & Haynes Co., Boston, Mass., $44,400; J. P. Keating, Westboro, $44,789; Wiley & Foss, Fitchburg, $45,491; R. L. Wilson Co., Concord, $48,198; Walter I. Mellan, Wrentham, $48,866; Marr Bros. & Stewart, Boston, $49,756; H. S. Sibley, Boston, $51,798; Afted & McDuffee, Malden, $55,168; E. A. Peabody & Son, Lawrence, $55,250.

Fall River, Mass.—Edward M. Corbett, Arch., is preparing plans for the construction of the four-story police station at Fall River.

Mattapan—(Boston post office) **Mass.**—The lowest bid received by Richard A. Lynch, Supt. of Bldgs., for the construction of the police station, was submitted by John Bowen, $55,333. Noted Nov. 19.

Needham, Mass.—Plans have been prepared by James H. Ritchie, Arch., Boston, Mass., for the library to be constructed at Highland Ave. and Rosemary St.

✚**Northampton, Mass.**—The contract for the construction of a three-story building for the Sherwin Estate has been awarded to A. C. WIGGLESWORTH, 19 Trinity Terrace. The Samuel Green Co. is Arch.

New Haven, Conn.—L. W. Robinson, Arch., has completed plans for the administration building to be built by the New Haven Hospital Association, and the building for the Yale Medical School. The estimated cost is $300,000.

Stamford, Conn.—Bids are being received by Henry C. Pelton, Arch., 8 West 38th St., New York, for the construction of a seven-story apartment hotel on South St., for the Marlborough Realty Co. The estimated cost is $100,000. Noted Aug. 27.

★✚**Buffalo, N. Y.**—The general contract for the construction of the two-story brick armory and stable on Delevan St., for the New York State Armory Commission, has been awarded to CHARLES EVERITT, 424 White Bldg. Noted Nov. 5.

New Rochelle, N. Y.—Frederick Stevens, Arch., 9 Park St., Boston, Mass., is preparing plans for a brick addition to the hospital on Guion St., for the New Rochelle Hospital Association. The estimated cost is $90,000.

New York, N. Y.—(Borough of Brooklyn)—Bids will be received until 3 p.m., Dec. 7, by C. B. J. Snyder, Supt. of School Bldgs., Park Ave. and 59th St., Borough of Manhattan, for general construction of additions and alterations in Public School 18, at Maujer and Leonard St.

New York, N. Y.—(Borough of Richmond)—Bids will be received until noon Dec. 22, by Charles J. McCormack, Pres., Borough of Richmond, Borough Hall, St. George, New Brighton, for the general construction of a county court house at St. George, Borough of Richmond.

New York, N. Y.—(Borough of Manhattan)—Plans have been completed by Jackson & Rosencrans, Archs., 1328 Broadway, New York, for the construction of the Y. M. C. A. building to be constructed at East Third St. and the Bowery. The estimated cost is $400,000.

Schroon Lake, N. Y.—W. E. Lawrence, Arch., 118 Crandall St., Glens Falls, N. Y., is preparing plans for rebuilding the three-story hotel for James S. Emerson and L. W. Emerson. The estimated cost is $50,000.

Troy, N. Y.—N. E. Clark, Arch., Cannon Pl., Troy, is preparing plans for the construction of a hospital and nurses' home to be constructed by the Leonard Hospital at 14th St. and Sixth Ave. The estimated cost is $50,000.

Utica, N. Y.—The Knight Templars of New York State will construct a school on the Masonic Home Grounds at Utica. The estimated cost is $40,000.

Elberon, N. J.—The Elberon Hotel, recently destroyed by fire, will be rebuilt. The estimated cost is $100,000. James Smith, Jr., Elberon, is interested.

Newark, N. J.—The Board of Education is having tentative plans for the Girls' Industrial School and the Fawcett School of Fine Arts. The estimated cost is $130,000. E. F. Guilbert, 665 Broad St., is Superv. Arch.

Newark, N. J.—The Somerville Methodist Episcopal Church plans to construct a church at Mt. Prospect and Grafton Ave. The estimated cost is $60,000. Rev. O. M. West, 755 Clifton Ave., is Pastor.

M. & J. Sharff, Newark, plan to construct a brick building at 49 Milford Ave., to cost $40,000.

New Brunswick, N. J.—Alexander Merchant, Arch., 363 George St., is preparing plans for constructing a two-story, 180x190-ft. high school at Lexington and Delaware Ave. The estimated cost is $150,000.

Gloucester City, N. J.—The Board of Education will construct a school at Somerset and Brown St.

Rockaway, N. J.—Bids will be received until Dec. 16, by the Board of Education, for the construction of a school. J. J. Vreeland Engr.

Roselle, N. J.—D. C. Newman Collins, Arch., 29 Broadway, New York, is preparing plans for the construction of a high school at Roselle. The estimated cost is $40,000.

West Hoboken, N. J.—The National Bank of North Hudson plans to construct a bank. The estimated cost is $40,000.

Waynesboro, Penn.—(Official)—Bids will be received until Dec. 16, by Harry H. Wehmeyer, 1004 W. Lehigh Ave., for the construction of a Y. M. C. A. building at Waynesboro. The estimated cost is $75,000. Noted incorrectly Nov. 12.

Atlanta, Ga.—A. Ten Eyck Brown, Arch., has prepared plans for the construction of the Fulton Theater on Houston St. The estimated cost is $100,000.

✚Thomasville, Ga.—The contract awarded to the T. E. Amason Co. for the construction of the school on Malette Heights, has been rescinded and awarded to the GEORGE A. CLAYTON CO., 507 Gould Bldg., Atlanta, Ga., at $41,149. Noted Aug. 20.

Baton Rouge, La.—Favrot & Livaudais, Archs., 505 Title Guarantee Bldg., New Orleans, are preparing plans for the George Peabody Building at the Louisiana State University and Agricultural and Mechanical College.

New Orleans, La.—Lodge No. 30, B. P. O. E. will erect a building at New Orleans. The estimated cost is $100,000.

✚Shreveport, La.—The contract for the construction of the three-story labor temple and office building at Shreveport, has been awarded to P. MARTINEAU. The estimated cost is $40,000. Clarence W. King, Shreveport, is Arch.

Vivian, La.—The Town Council has decided to construct a school. Plans are now being prepared. The estimated cost is $65,000.

Chattanooga, Tenn.—J. R. Baylor, Principal of the Baylor School, will construct buildings estimated to cost $70,000.

✚Memphis, Tenn.—The contract for the construction of a temple at Poplar Ave. and Montgomery St., for the Congregation of the Children of Israel, has been awarded to JAMES ALEXANDER CONSTRUCTION CO., Memphis. The estimated cost is $100,000. Noted Nov. 5.

Covington, Ky.—Weber, Werner & Adkins, Archs., 1206 Mercantile Library Bldg., Cincinnati, Ohio, are preparing plans for constructing the two-story and basement school at Covington. The estimated cost is $150,000.

Louisville, Ky.—The Standard Club, Louisville, Ky., will rebuild its clubhouse recently destroyed by fire. The estimated cost is $75,000. Louis Hirsch is Pres.

Akron, Ohio— H. E. Shinmin, Arch., 2031 Euclid Ave., Cleveland, is preparing plans for the construction of an eight-story and basement, 124x127-ft. masonic temple. Estimated cost, $400,000. George Billows, 110 Beck Ave., Akron, is Chn. of Bldg. Com.

Cincinnati, Ohio—Bids will soon be received for the construction of a $2,500,000 court house and jail at Cincinnati. James Albert Green is Chn. of Court House Comn. Noted July 23 and Sept. 3.

Cleveland, Ohio—Plans are being prepared by Fulton & Taylor, Archs., 704 Permanent Bldg., Cleveland, for the construction of a four-story and basement, 90x175-ft. apartment house for the Euclid-Carnegie Co. Estimated cost, $100,000. John Thorman, 516 Citizens Bldg., Cleveland, is Pres.

Morron & Cross, Archs., 734 Garfield Bldg., are preparing plans for the construction of a three-story freight station for the Cleveland R.R. Co. Estimated cost, $250,000. H. J. Davis, Leader News Bldg., is Secy. of the company.

✚The contract for the construction of a two-story and basement, 81x81-ft, and a two-story and basement, 80x408-ft. passenger and freight building, at Cleveland, for the Detroit & Cleveland Navigation Co., Detroit, Mich., has been awarded to GEORGE R. COOK, Ford Bldg., Detroit, Mich. Estimated cost, $100,000. Noted Nov. 12.

Plans have been prepared by W. R. McCormick, Arch., Board of Education Bldg., Cleveland, for the construction of a three-story and basement, 85x180-ft. school. The estimated cost is $200,000.

Plans have been prepared by Frank C. Warner, Arch., 767 Hippodrome Bldg., for the construction of an eight-story, 78x162-ft. and a five-story, 35x180-ft. railroad terminal for the Northern Ohio Traction & Light Co., Hamilton Bldg. Estimated cost, $200,000. Bids will be received in the spring.

The construction of an apartment building at Forest Hill and Superior Ave. is contemplated by Samuel Deckelbaum, 2350 East 39th St., Cleveland. Estimated cost, $60,000.

✚Columbus, Ohio—The contract for the construction of the one-story, 36x122-ft. addition to the Hyper-Immune building at the State Serum Farm has been awarded to MOOR BROS., Builders' Exchange, Columbus. Harry C. Holbrook, Columbus, is Arch.

Columbus, Ind.—The construction of a $100,000 theater will begin in the spring for a company now being organized in Columbus. Barton & Olson, Indianapolis, are interested.

Greencastle, Ind.—Bids will be received about Jan. 15, 1915, by G. L. Grose, Pres. of DePauw University, for the construction of a $100,000 gymnasium. R. P. Daggett & Co., Archs., are preparing plans. Noted Oct. 8.

Detroit, Mich.—C. Howard Crane, Dime Bank Bldg., is preparing plans for the construction of an amusement hall and store building at Columbia and Woodward St., for the Colonial Garden Co. Estimated cost, $50,000.

✚Grand Rapids, Mich.—The contract for the construction of a one-story and basement, 58x146-ft. building, for the St. Anthony's R. C. Church, has been awarded to SCHILDROTH & EDWARDS, 1314 Henrietta Ave., Grand Rapids. Estimated cost, $75,000. Noted Oct. 22.

Sturgis, Mich.—Plans have been prepared by Robinson & Campau, Archs., Grand Rapids, for the construction of a three-story reinforced-concrete fireproof school on Nottawa St. The estimated cost is $95,000.

✚Bloomington, Ill.—The contract for the construction of a three-story high school has been awarded to J. L. SIMMONS, 423 West Madison St., Chicago. Estimated cost, $250,000.

Continued on page 348

CONTRACT PRICE
BARGE CANAL WORK, ALBANY, N. Y.
Contract No. 29

Bids were received Nov. 20 by Duncan W. Peck, State Supt. Pub. Wks., Albany, for Barge Canal Contract No. 29, constructing a harbor, dockwall and two breakwaters in Oneida Lake at Constantia, N. Y., and Contract J, constructing the substructure, superstructure and approaches of a highway bridge over the Cayuga and Seneca Canal at Fourth St., Watkins, N. Y. Bids were submitted by (A) Seneca Engineering Co., Montour Falls, N. Y.; (B) Low B. Cleveland, Watertown; (C) D. L. Taylor & Co., Medina; (D) Parker Beebe, Waterford; (E) Frank L. Cohen, Buffalo; (F) Drake & Dean Co., Inc., Buffalo; (G) Brooks & Julian, Rochester; (H) Lathrop, Shea & Henwood Co., Buffalo; (I) Chesley, Earl & Heimbach Co., Buffalo; (J) Barrally & Ingersoll, Rochester; (K) Walsh Construction Co., Davenport, Iowa; (L) John Kelly, Elmira; (M) Oswego Construction Co., Fulton; (N) Scott Bros., Rome; (O) Flood & Van Wirt Co., Hudson Falls; (P) James Stewart & Co., Inc., 50 Church St., New York; (Q) Eastover Construction Co., Inc., Utica. The item bids were as follows:

		J	P	Q
48,000 cu.yd. excavation		$0.40	$0.54	$0.49
24 M ft. b.m. sawed lumber		50.00	50.00	50.00
49,000 lin.ft. round timber (cribs)		0.16	0.20	0.20
230 cu.yd. second class concrete		8.00	8.00	9.50
1,230 cu.yd. stone filling		1.50	1.47	1.80
1,500 cu.yd. second-class rip-rap		4.50	4.50	2.50
1,170 lb. iron casting, plain		0.05	0.05	0.05
Extended totals	72	$38,733	$47,377	$42,7

CONTRACT J

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
8850 cu.yd. excavation	$0.72	$0.63	$0.60	$0.75	$0.41	$0.68	$0.63	$0.65	$0.60	$0.60	$0.55	$0.70	$0.90	$0.65	$0.75
90 cu.yd. lining	1.50	1.50	1.50	1.50	1.25	1.45	1.25	1.50	1.25	1.50	1.25	1.50	1.50	1.50	1.50
19 M ft. b.m. sawed lumber	50.00	50.00	50.00	50.00	45.00	50.00	40.00	55.00	38.00	50.00	50.00	50.00	60.00	50.00	50.00
6900 lin.ft. foundation piles	0.33	0.25	0.36	0.36	0.36	0.32	0.35	0.35	0.25	0.30	0.26	0.30	0.36	0.30	0.36
2580 cu.yd. second-class concrete	6.00	6.65	7.00	8.00	7.60	7.20	6.50	7.50	7.20	6.50	6.53	6.50	7.40	7.25	8.00
130 cu.yd. first-class reinforced concrete	12.00	11.80	12.00	12.00	12.00	12.00	10.00	12.00	10.00	11.00	11.00	10.00	12.00	14.00	12.00
6050 lb. c.i. pipe	0.03	0.02½	0.03	0.03	0.02½	0.03	0.02	0.03	0.02½	0.02½	0.03	0.02	0.03	0.03	0.02½
331,000 lb. structural steel	0.04	0.038	0.039	0.04	0.03½	0.04	0.0385	0.04	0.0365	0.0415	0.04	0.0425	0.03	0.041	0.04
23,700 lb. metal reinforcement	0.03	0.03	0.03	0.03½	0.03	0.03½	0.03	0.03½	0.02½	0.02½	0.02½	0.03	0.03	0.03½	0.03
2300 sq.ft. concrete sidewalks	0.14	0.20	0.25	0.25	0.25	0.24	0.15	0.20	0.18	0.20	0.22	0.15	0.25	0.25	0.20
580 lin.ft. concrete curb and gutter	0.50	0.70	1.00	1.00	1.00	0.95	0.60	1.00	0.80	1.00	0.80	0.75	1.00	1.00	0.75
1160 sq.yd. waterbound macadam H. O.	1.00	1.00	1.00	1.00	1.00	0.97	0.80	1.00	0.85	1.00	1.00	1.00	1.00	1.00	1.20
350 sq.yd. asphalt block pavement	2.00	2.00	2.00	2.00	2.00	2.10	2.00	2.00	1.75	2.00	2.00	2.00	2.00	2.00	2.20
725 lin.ft. wooden fence	0.27	0.25	0.25	0.25	0.25	0.30	0.25	0.25	0.18	0.25	0.25	0.25	0.25	0.25	0.25
285 lin.ft. w.i. pipe railing	1.25	1.10	1.25	1.50	1.25	1.30	1.25	1.25	1.00	1.25	1.25	1.00	1.25	1.50	1.25
175 lin.ft. lattice railing	1.75	1.50	1.75	2.00	1.75	1.75	1.75	2.00	1.50	1.75	1.75	1.75	1.75	1.85	1.75
150 cu.yd. stone filling for cribs	2.00	2.00	1.50	2.00	1.50	1.90	1.50	2.40	2.00	2.00	1.50	2.00	2.00	2.40	2.00
6 oil signal lamps	15.00	15.00	18.00	15.00	15.00	15.00	10.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
Maintaining highway traffic (lump sum)	100.00	100.00	120.00	100.00	50.00	100.00	25.00	100.00	100.00	100.00	100.00	50.00	100.00	100.00	120.00
Maintaining navigation (lump sum)	100.00	100.00	1.00	100.00	1.00	100.00	100.00	100.00	100.00	100.00	100.00	50.00	100.00	100.00	1.00
Cofferdams pumping, bailing and draining (lump sum)	4400.00	7000.00	4800.00	4800.00	4100.00	4000.00	4800.00	4800.00	3750.00	3500.00	4000.00	4500.00	1.00	4800.00	4800.00
Extended totals	$49,227	$51,590	$51,413	$56,021	$49,020	$52,126	$48,883	$53,746	$48,065	$48,970	$48,204	$50,722	$47,646	$53,412	$55,720

Buildings (continued)

Chicago, Ill.—James B. Dibelka, State Arch., has prepared plans for the construction of a 17-story state building on Fifth Ave. and Randolph St., to be known as the State Bldg. Estimated cost, $500,000.

Danville, Ill.—The construction of a temple, to cost $150,000, is contemplated by the Masonic Association. James P. Sutton, Danville, is Secy. of the Association.

Joliet, Ill.—The Paul Revere Lodge of the Knights of Pythias is planning the construction of a seven-story temple at Ottawa and Clinton St. Estimated cost, $300,000.

Kankakee, Ill.—Bids will be received until 3 p.m., Dec. 14, by the Board of Administration, Capitol Bldg., Springfield, for the construction of a contagious disease building at the Kankakee State Hospital.

Quincy, Ill.—Martin J. Geise, 800 Main St., is preparing plans for the construction of the Jefferson School. The estimated cost is $95,000. Noted Sept. 24.

Madison, Wis.—Bids will be received until 2:30 p.m., Dec. 15, 1914, by M. E. McCaffrey, Secy. of the University of Wisconsin, Administration Bldg., Madison, for the construction of the physics building at the university.

Davenport, Iowa—The City Commissioners of Davenport are contemplating the construction of a $75,000 jail at Fifth and Main St.

St. Paul, Minn.—Buechner & Orth, Archs., 500 Shubert Bldg., are preparing plans for the enlargement of the St. Paul Arcade building on Seventh and Minnesota St., for Bremer Bros. Estimated cost, $350,000.

Red Lodge, Mont.—Plans are being prepared by G. McAllister, Arch., Billings, for a two-story hotel, store and theater building for the Red Lodge Trustee Co. The estimated cost is $60,000.

Belleville, Mo.—Bids will soon be received by the Belleville Public Library Board, for the construction of the Carnegie Library at First and Jackson St. Estimated cost, $45,000. Noted Oct. 1.

Jefferson City, Mo.—Plans have been prepared by Frank B. Miller, Jefferson City, for the construction of a seven-story office building at Madison and High St. for the Central Mission Trust Co. Estimated cost, $135,000.

Logan, Utah—Bids are being received by Cannon & Fetzer, Archs., Templeton Bldg., Salt Lake City, for the construction of a three-story concrete chemistry building for the Utah Agricultural College. Estimated cost, $45,000.

Bisbee, Ariz.—Bids will soon be received for the construction of a contagious disease hospital. The estimated cost is $41,000. M. L. Butler is City Clk.

✚**Republic, Wash.**—HENRY VAN LAKEN, Cœur d'Alene, Idaho, has been awarded the contract for the construction of a three-story brick and concrete high school at Republic. Estimated cost, $60,000. Sweet & Diamond, Spokane, are Archs.

Portland, Ore.—Bids will be received about Jan. 15, 1915, by the First National and Security Savings & Trust Banks for the construction of a $500,000 building. D. C. Lewis, Couch Bldg., will have charge of the construction. Shepley, Rutan & Coolidge, Boston, Mass., are Archs. Noted July 30 and Sept. 10.

Bids will be received about Jan. 1, 1915, by the Commissioners of Multnomah County for the construction of a $400,000 reinforced-concrete county hospital. Bridges & Webber, Chamber of Commerce Bldg., are Archs.

The Board of Trustees of St. Helens Hall recently destroyed by fire with a loss of $75,000, contemplates rebuilding the structure. Estimated cost, $100,000. A. A. Morrison is Chn. of Bd.

✚The contract for the construction of the Shattuck School has been awarded to BOYAJOHN-ARNOLD CO., Panama Bldg., Portland, at $121,575. The lowest bid for the heating and ventilating was that of the Alaska Plumbing Co., $23,855. Noted Nov. 5.

Fresno, Calif.—Schwartz, Hotchkin & Schwartz, Archs., are preparing plans for the construction of a two-story and basement, 75x175-ft. building on Tulare and L St., for F. M. Roessler. Estimated cost, $70,000.

Los Angeles, Calif.—Robert H. Orr, Arch., Van Nuys Bldg., has prepared plans for the construction of a 86x100-ft. building on South Park Ave. and 42d St. for the South Park Christian Church.

Los Angeles, Calif.—Plans are being prepared by H. Alban Reeves, Chamber of Commerce Bldg., for the construction of a building for the Cienaga School District. Estimated cost, $60,000. Noted Nov. 19.

Oakland, Calif.—Plans have been prepared by J. J. Donovan, Security Bank Bldg., for the construction of a reinforced-concrete high school at Magnolia and 32d St. Estimated cost, $160,000.

✚**San Bernardino, Calif.**—Contracts for the construction of a group of high-school buildings were awarded as follows: GEORGE C. CONDON, Citizen's National Bank Bldg., Los Angeles, to construct the administration and manual arts building, $94,200; CRESSMER MANUFACTURING CO., Riverside, for the classic, science and home economics buildings, $82,991. The estimated cost of the group is $240,000. Norman F. Marsh, Broadway Central Bldg., Los Angeles, is Arch. Noted Oct. 1.

San Diego, Calif.—Eugene Hoffman, Arch., Spreckels Bldg., has prepared plans for the construction of an apartment hotel for the Broadway Hotel Co., of San Diego. Estimated cost, $100,000. Eugene Hoffman is Pres. of the company.

✚**San Francisco, Calif.**—The contract for the construction of a two-story addition to the Ferry Bldg., for the Board of State Harbor Commissioners, has been awarded to the CONSTRUCTION & ENGINEERING CO. The estimated cost is $38,000. Noted July 30.

Plans are being prepared for the construction of a building on the Embarcadero, between Mission and Howard St., for the Board of State Harbor Commissioners. Estimated cost, $50,000.

Fort George, B. C.—The Fort George Hotel recently destroyed by fire will be rebuilt at an estimated cost of $100,000.

RECORD BIDDING ON CONSTRUCTION

Not within the memory of the older engineers and contractors has there been such keen bidding on all classes of construction work. In a recent piece of work at Wappinger's Falls, N. Y., there were forty-two bidders for the water supply system and thirty-seven bidders for the sewers. A new storehouse is to be built at the Washington Navy Yard, and to date there have been 136 applications for plans, of which five are duplications; that is, where firms have a Washington and a New York office, each would apply for the same plan. Of the remaining 131, thirty-seven are obviously subcontractors, who would not bid on the entire proposition. Sixteen sets of plans have been returned by bidders evidently not interested. For the Rock Creek Bridge in Washington there were 23 bidders, and for the high school, 18 bidders. A new post office will be constructed at Morristown, N. J., and already over 60 applications are on file at the Treasury Department for the plans of this work.

Philadelphia Builders Fail—Notice has been received that Doak & Co. has been unable to meet its bills. A preliminary examination reports the total liabilities of the firm as $562,000 and the total assets $415,000. One of the important buildings the company now has under construction is the Finance Building, 1426 South Penn Square, which is 80% completed.

Contracts for Dual System of Rapid Transit

FOR OPERATION BY NEW YORK MUNICIPAL RAILWAY CORPORATION

Broadway-Fifty-ninth St. Subway—(In Manhattan). Route No. 5

Section	Limits	Contractor	Contract Executed	Amount of Contract	Item Bids Published in Engineering News
1	Morris to Dey St.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	$1,222,269.20	Sept. 19, 1912
1-A	Dey St. to Park Pl.	F. L. Cranford, 177 Montague St., Brooklyn	Sept. 27, 1912	982,740.70	Sept. 19, 1912
2	Park Pl. to Walker St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Feb. 6, 1912	2,355,828.50	Feb. 1, 1912
2-A	Walker St. to Howard St.	O'Rourke Engineering Contracting Co., 345 5th Ave., N. Y.	July 17, 1912	912,351.60	April 11, 1912
3	Howard St. to Bleecker St.	Underpinning and Foundation Co., 290 Broadway, N. Y.	Jan. 19, 1912	2,295,096.50	Jan. 18, 1912
4	Bleecker St. to Union Sq.	Dock Contractor Co., 2 Rector St. N. Y.	Aug. 19, 1913	2,578,078.00	July 10, 1913
	Broadway (Manhattan)—Fourth Ave., (Brooklyn)—Routes Nos. 4 and 36				
1	Union Sq. to 26th St.	E. E. Smith Contracting Co., 101 Park Ave., N. Y.	Aug. 1, 1913	$2,056,702.50	Aug. 7, 1913
2	Broadway, 26th St. to 38th St.	United States Realty & Investing Co., 111 Broadway, N. Y.		2,657,004.00	May 7, 1914
5	59th and 60th St., 7th to 2d Ave.	Degnon Contracting Co., 30 E. 42d St., N. Y.		2,819,511.00	Nov. 20, 1913
	Canal St. Manhattan—Route 20				
2	In Canal St. from Bowery to Broadway	Underpinning & Foundation Co., 290 Broadway, N. Y.		$1,822,999.00	May 21, 1914
	Fourth Avenue Subway—(In Brooklyn)				
	Six sections, extending from Manhattan Bridge through Flatbush Ave. extension Fulton St., Ashland Pl. and Fourth Ave. to 43rd St. Contracts let in May, 1908; approved by Board of Estimate and Apportionment in October, 1909, and work begun in November, 1909			$19,348,818.01	
	Fourth Ave. Extension Subway—Route No. 11-B—(In Brooklyn)				
1	43rd St. to 61st St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	$1,930,258.50	Sept. 26, 1912
2	61st St. to 89th St.	Degnon Contracting Co., 30 East 42nd St., N. Y.	Oct. 4, 1912	1,904,171.25	Sept. 26, 1912
	Total			$3,834,429.75	
	Total—Fourth Ave. line and extension			19,848,818.01	
	Brooklyn Loop Line (Centre Street)—Route No. 9-O—(In Manhattan)				
	Extending from the Manhattan terminus of the Brooklyn Bridge under Centre St. and Delancey St. extension to Williamsburg Bridge, with spur at Canal St. to the Manhattan Bridge (including real estate, but not engineering, etc.)			$12,884,896.49	
	New Utrecht Ave. Elevated Line—Route No. 39—(In Brooklyn)				
2	39th St. to Coney Is.	Post & McCord, Inc., 101 Park Ave., N. Y.	Dec. 31, 1913	$1,672,190.00	Dec. 4, 1913
	Route No. 33—In Manhattan				
	Trinity Place and Warren St. to South St.	Booth & Flinn Ltd., 3785 Broadway, N. Y.		$2,059,182.00	April 23, 1914
	Montague Tunnel	* Booth & Flinn Ltd., and O'Rourke Engineering & Contracting Co.		5,974,869.00	June 4, 1914

Contracts for Dual System of Rapid Transit—Continued

FOR OPERATION BY INTERBOROUGH RAPID TRANSIT CO.

Seventh Ave.-Lexington Ave. Subway—Routes Nos. 5, 19 and 22, 43, 16, 4 and 38, 9 and 48

*6	26th St. to 40th St	Bradley Contracting Co., 1 Madison Ave., N. Y	July 21, 1911	$3,634,213.50	Nov. 3, 1910

* Work stopped on April 26, 1912, on account of change in routing of this branch.

Lexington Avenue Branch—Route No. 5

7	43d St. to 53d St	Rapid Transit Subway Construction Co., 165 Broadway, New York		$1,915,164.00	June 25, 1914
8	53rd St. to 67th St	Bradley Contracting Co., 1 Madison Ave., N. Y	July 21, 1911	$3,369,484.20	Nov. 3, 1910
9	67th St. to 79th St	P. McGovern & Co., 1 Madison Ave., N. Y	Feb. 13, 1912	1,961,997.00	Dec. 14, 1911
10	79th St. to 93rd St	Bradley Contracting Co., 1 Madison Ave., N. Y	July 21, 1911	3,253,072.80	Nov. 3, 1910
11	93rd St. to 106th St	Bradley Contracting Co., 1 Madison Ave., N. Y	July 21, 1911	3,132,195.05	Nov. 3, 1910
12	106th St. to 118th St	Oscar Daniels Co., Woolworth Bldg., N. Y	Sept. 3, 1911	2,825,740.74	Nov. 3, 1910
13	118th St. to 129th St	Bradley Contracting Co., 1 Madison Ave., N. Y. (Assigned to McMullen, Snare & Triest, Inc.)	Nov. 17, 1911	4,071,416.50	Nov. 3, 1911
14	129th St. to 135th St	Arthur McMullen & Olaf Hoff, 149 Broadway, N. Y.	July 23, 1912	3,889,775.05	June 16, 1912
15	135th St. to 157th St	Hagerty-Drummond Co., 48 Park Row, N. Y. (Assigned to Rogers & Hagerty)	Nov. 17, 1911	3,820,129.75	Nov. 3, 1910
Total				$26,323,811.09	

Southern Boulevard Branch—Routes Nos. 19 and 22 (In the Bronx)

1	138th St. to 147th St	John F. Stevens Construction Co., 55 Wall St., N. Y. (Assigned Oct. 23, 1913 to Richard Carvel Co., Inc., 401 West 59th St., N. Y.)	Oct. 22, 1912	$2,253,281.75	Sept. 26, 1912
1-A	147th St. to Bancroft St	Rodgers & Hagerty, E. 152nd St. and Harlem River, N. Y		2,253,159.25	Dec. 11, 1913
Total				$4,506,441.00	

Jerome Avenue Branch—Route No. 16—(In the Bronx)

1	157th St. to 182nd St	Oscar Daniels Co., Woolworth Bldg., N. Y	Dec. 31, 1913	$1,077,978.00	Dec. 11, 1913
2	182nd St. to Woodlawn Road	Cooper & Evans, 220 Broadway, N. Y		1,075,831.00	Feb. 19, 1914

Seventh Avenue-Lexington Ave.—Routes Nos. 4 and 38

1	Battery Park to Greenwich and Vesey St	Rapid Transit Subway Construction Co., 165 Broadway, N. Y		$2,120,000.00	April 30, 1914
1-A	Connection from 7th Ave. Subway to present subway	Rapid Transit Subway Construction Co., 165 Broadway, N. Y		$474,244.00	June 18, 1914
2	Vesey to Beach St	Degnon Contracting Co., 30 East 42nd St., N. Y	Mar. 1914	3,059,522.00	Dec. 11, 1913
3	Beach St. to Commerce St	Degnon Contracting Co., 30 East 42nd St., N. Y	Dec. 31, 1913	2,185,063.50	Nov. 20, 1913
4	Commerce St. to 16th St	United States Realty & Improvement Co., 111 Broadway, N. Y	Mar. 6, 1913	1,837,726.00	Mar 12, 1914
5	16th St. to 30th St	Canavan Bros., N. Y	Dec. 31, 1913	2,401,306.75	Nov. 20, 1913
6	30th St. to 43rd St	Rapid Transit Subway Construction Co., 165 Broadway, N. Y	Dec. 31, 1913	2,292,000.00	Jan. 8, 1914
6-A	43rd to 45th St. Times Sq	Holbrook Cabot & Rollins Corp., 331 Madison Ave. N. Y		421,566.00	May 28, 1914
Total				$14,790,428.25	

White Plains Road Line—Route No. 18—(In the Bronx)

1	180th St. to Burke Ave	Oscar Daniels Co., Woolworth Bldg., N. Y	Mar. 16, 1914	914,400.00	Feb. 19, 1914
2	Burke Ave. to 241st St	Alfred P. Roth, Broad St., N. Y	Dec. 31, 1913	958,484.00	Dec. 4, 1913

†Woodside, Astoria and Corona Line—Routes Nos. 36 and 37—(In Queens)

1	Queensboro Bridge Plaza	Snare & Triest, 143 Liberty St., N. Y	Oct. 7, 1913	$884,859.00	Aug. 28, 1913
2	Astoria Line	Cooper & Evans, 220 Broadway, N. Y	Mar. 11, 1913	860,743.50	Feb. 13, 1913
3	Corona Line	E. E. Smith Contracting Co., 101 Park Ave., N. Y	Mar. 11, 1913	2,063,588.00	Feb. 13, 1913
Total				$3,809,190.50	

Steinway Tunnel Extension—Route No. 50—(In Queens)

	Davis St. and Ely Ave., Van Alst Ave. to Queensboro Bridge	Degnon Contracting Co., 30 East 42nd St., N. Y	Dec. 1, 1913	$557,857.50	

Route 48

3	Clark Tunnel	*Booth & Finn Ltd., and O'Rourke Engineering & Contracting Co		$6,469,916.00	June 4, 1919

Lutheran Cemetery and Myrtle Ave. Connection

2		Phoenix Bridge Co., 49 William St., N. Y		$707,661.00	
2		F. W. Burnham, 30 East 42nd St., N. Y	Mar. 1914	143,225.00	

Reconstruction Steinway Tunnel-Route 26

	42nd and Lexington Ave., under East River to Jackson and Alst Ave., L. I. City	Rapid Transit Subway Construction Co., 165 Broadway, N. Y	Feb. 17, 1914	$383,911.00	Feb. 25

Connection with Brighton Beach Line—Route 12

1	St. Felix St. and Ashland Pl. to Hanson Pl	Cranford Co., 190 Montague St., Brooklyn		$2,195,296.00	June 25, 1914
1-A	In Flatbush Ave., between St. Marks Ave., Prospect Park Plaza	Cranford Co., 190 Montague St., Brooklyn		$2,225,519.25	April 9, 1914
1		Frederick L. Cranford, Inc., 177 Montague St., Brooklyn		1,571,363.00	Oct. 22, 1914
2		Smith, Hauser & MacIsaacs		2,254,670.00	Sept. 24, 1914

* Awarded two contracts jointly.

† Trackage rights also to New York Municipal Railway Corporation.

Favorable Balance of Trade—Enormous purchases by European interests and their inability to sell to us is resulting in a large and unusually favorable balance of trade. Figures just compiled by Secretary of Commerce Redfern estimate that there was an excess of exports in November of $63,188,000.

The value of sugar exports in October was $6,984,929, an increase of $6,872,111 over October, 1913. Wheat exports were heavily increased, and exports of oats, rye and canned beef, which in normal years are practically nothing, jumped in huge proportion. The value of wheat exports for October was $4,344,636, against $1,884,352 in the previous year. It is estimated that in the five months ended November 30 exports of wheat have been 140,000,000 bu., only 5,000,000 bu. less than the exports in the entire year previous ended June 30. Oats exported in October were valued at $1,492,876, against $8040 the previous year.

Cartridges exported from New York were valued at $1,229,117, nearly ten times the amount for the corresponding month last year. Firearms exports were more than double what they were in October, 1913.

The great demand that is being filled for Europe in this country for war munitions is illustrated in the $2,239,547 worth of automobile trucks exported, against $66,040 last year. New York is getting only a part of the exports of these materials, much going from Chicago and Detroit through Canada.

Three aëroplanes went out of New York during the month, against none last year, and 594 motorcycles were shipped, against 168 the year before. Exports of horses were 342, against 135, valued at $99,145, against $92,368 the previous year. A great part of the horse shipments are going from Gulf ports. Freight room here is reported to be scarce, a rate named yesterday being $65, against the normal $25 per horse. The value of drugs doubled, amounting to $632,588.

Some of the big increases in October exports to neutral countries close to Germany were those to Italy, the value being $5,108,214, against $3,258,643 the previous year; Denmark, $5,041,028, against $582,618; Norway, $2,526,416, against $571,717; Sweden, $2,915,119. Even Iceland figures in the export trade, taking $89,988, chiefly in wheat and oil, against $512 the previous year. There were no direct exports to Germany and Austria.

That the stream is only beginning is evident from the resumption of cotton shipments, the further demands for wheat and numerous inquiries for manufactured goods. On Dec. 1 an inquiry was received for 2,000,000 yd. of cloth and an order booked for 500,000 pairs of shoes.

A New Enterprise—The old dry-goods store of Stern Bros. on West 23d St., New York, N. Y., will be remodeled and used as a public food market, to be known as the Cosmopolitan Garden. It will be on the order of the Convent Garden of London, and will contain more than 150 booths on the first and second floors, which will be leased. The estimated cost of the alterations is $300,000. Starrett & Van Vleck, New York, are the Archs.

Company Not to Retire—Rumors have been circulated to the effect that the Best Mfg. Co., Pittsburgh, Penn., intended retiring from the piping business. The company wishes to emphatically deny these rumors and assure the trade which has known the Best Mfg. Co. for over 30 years that it is now, and intends to continue, in the piping business.

Contracts to Be Let

Bids received until Dec. 22, 1914.

Barge Canal Work

STATE OF NEW YORK,
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS,
Albany, November 25th, 1914.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, December 22nd, 1914, at which place and hour they will be publicly opened and read, for improving the Cayuga and Seneca canal pursuant to the provisions of Chapter 391 of the Laws of 1909, and Chapter 147 of the Laws of 1903 and of the amendments thereto, as follows:

1. CONTRACT C-2.

Cayuga and Seneca Canal—Section 1.

For the removal of buildings, etc., at Seneca Falls, N. Y. Sheet 1.

And for the construction of Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts supplementary thereto, as follows:

2. TERMINAL CONTRACT NO. 13.

For constructing a guard-lock, highway bridge and cut-off dam at Schuylerville.

Contract plans, sheets 1 to 12, inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

On the terminal contract monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank (or trust company in the case of terminal contract), in good credit within the State, and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal, except in the case of Contract C-2, where such deposit must at least amount to $200.00.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person, or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made, will be returned immediately after the award has been made.

In the case of the terminal contract the amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract. In the case of Contract C-2 the amount of bond required for faithful performance will be $10,000.00, and a labor bond in the sum of $1,000.00 will be required.

In the event that more than one surety company is offered as surety on said bonds, coinsurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned the interests of the State will be enhanced thereby.

DUNCAN W. PECK,
Superintendent of Public Works.

Bids received until Dec. 9, 1914.

Somers Point—Longport Boulevard

Atlantic City, N. J.

Sealed bids will be received by the Board of Chosen Freeholders of Atlantic County, N. J., at Twelve o'clock, noon, December 9th, 1914, in Memorial Hall, Atlantic City, N. J., for the improvement of the Somers Point-Longport Boulevard, Atlantic County, N. J.

Said boulevard to be 4.11 miles long, graveled to the width of 40 feet. Contract will include furnishing in place 48 inch cross drains with concrete head walls, building small creosoted timber pile bridges, and furnishing in place creosoted timber bulkheads.

Plans and specifications may be seen at the office of the Engineer for Atlantic County at No. 636 Bartlett Building, Atlantic City, and copies may be had for a deposit of $5.00 for each set of plans and specifications. Such deposit will be returned if plans and specifications are returned in good condition by noon December 10th, 1914.

Certified check to the amount of $1000 will be required of each bidder and a bond in the full amount of the contract will be required of the Contractor.

The right is reserved to reject any or all bids.

GEORGE B. JEFFERS,
Chairman Road Committee.

A. H. NELSON,
Engineer for Atlantic County.

Bids received until Dec. 10, 1914.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, New York, Nov. 18, 1914.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Thursday, December 10th, 1914, for the improvement of highways in the following counties.

Albany (Approx. length 8.29 miles); Cayuga County (4.58); Columbia County (1.18); Erie (4.47); Jefferson (1.08); Madison (0.45); Monroe (13.18); Orange (1.27); Orleans (8.91); Oswego (4.79); Onondaga (0.76); Saratoga (3.73); Steuben (4.27); Suffolk (5.96); Warren (0.61); Washington (1.32); Westchester (4.69).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, New York, and also at the office of the Division Engineer in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to the "Information of Bidders" in the itemized proposal, specifications and contract agreement.

The right is reserved to reject any or all bids.

JOHN N. CARLISLE, Commissioner.
R. K. FULLER, Secretary.